

# Receiving Report

Date: 14-10-28

Batch No: 130711

Supplier: Ving

Dart P/O: 24734

Packing Slip: Yes ☒ No ☐  
 Invoice: Yes ☒ No ☐  
 Receipt: Cash ☐ Cr ☒  
 New Supplier: Yes ☐ No ☒

Release Note Attached: Yes ☒ No ☐ N/A ☐  
 Waybill Attached: Yes ☒ No ☐ N/A ☐  
 Shipment Complete: Yes ☒ No ☐ N/A ☐  
 QC18 Inspection ☐ N/A ☒  
 Work Order ☐ N/A ☒

## Discrepancies

Part Number	Description	Quantity Ordered	Quantity Rec'd	Quantity Short	Quantity Inspected	Quantity Rejected	Comment / NCR Number

Initials of Receiver

QC12

SP

Production/Admin:

Date \_\_\_\_\_  
 Received/Costing \_\_\_\_\_  
 Initial \_\_\_\_\_

Location \_\_\_\_\_



Dart Aerospace Ltd.  
1270 Aberdeen Street  
Hawkesbury, ON K6A 1K7  
Tel: 613 632 9577  
Fax: 613 632 1053

## PURCHASE ORDER

Purchase Order ID **PO24734**

Purchase Order Date 6/24/2014

PO Print Date 7/10/2014

Page Number 2 of 3

**Order From :**

VARGA ENTERPRISES INC.  
2350 S AIRPORT BLVD.  
CHANDLER, AZ 85286

VU-VE001

**Ship To :** DART AEROSPACE LTD

1270 ABERDEEN  
HAWKESBURY, ON K6A 1K7  
CANADA

Contact Name

Vendor Phone

480-963-6936

Ship To Contact

Ship To Phone

Ship Via:

FedEx PI collect

Ship Acct:

Buyer

Customer POID

Customer Tax #

Terms

Currency

FOB

Michael Gregoire

10127-2607

Net 30

USD

FCA - (Free Carrier)

Line Total:

\$4,346.

4 AE89384H

FRANGIBLE

10/30/2014 FN

5.00

\$2,383.50

\$11,917.

No

Each

10/30/2014

Line Total:

\$11,917.

5 AE89347H

FITTING

10/15/2014 FN

6.00

\$797.28

\$4,783.

No

Each

10/15/2014

Line Total:

\$4,783.

8214-10-28

**PO Instructions:** \*\*\*NOTE\*\*\*

Quote#301766

\*\*\*\*\*

Ship via Fedex acc#151793240

Note:

7/10/2014







From:

CUST  
P.O. NO. PO24734MARK  
NO.MARK  
NO. PO24734S  
O DART AEROSPACE LTD  
L 1270 ABERDEEN ST  
D  
T HAWKESBURY ON K6A 1K7  
O CANADAS  
H DART AEROSPACE LTD  
I 1270 ABERDEEN ST  
P  
T HAWKESBURY ON K6A 1K7  
O CANADAORDER DATE  
07/15/14SALES ORDER NO.  
319251-001PAGE  
1WRITTEN  
DDAORIGIN  
01

SHIPMENT FROM OUR

WAREHOUSE

LINE NO.	CURRENT OPEN QUANTITY	PART NUMBER DESCRIPTION	PRODUCT	WEIGHT	UNIT OF MEAS	QUANTITY	
						RELEASED	SHIPPED
		SHIP ON FEDEX ACCT# 151793240 EATON C OF C REQUIRED					
		TEL: 613-632-3336 PST# 6122-5207 / GST# RT101272607					
10	6	AE1011664H0480			EA	0	
		HOSE ASSEMBLY	AQPF				
		PRICE EACH:	587.3700	TAX EACH:	.0000		
20	3	AE85691M			EA	0	
		COUPLING	AQPC				
		PRICE EACH:	2313.4900	TAX EACH:	.0000		
30	5	AE85789M			EA	0	
		PLUG	AQPC				
		PRICE EACH:	869.3000	TAX EACH:	.0000		
40	6	AE89347H			EA	6	6 ✓
		FITTING	AQPP				
		PRICE EACH:	797.2800	TAX EACH:	.0000		
50	5	AE89384H			EA	0	
		COUPLING	AQPC				
		PRICE EACH:	2383.5000	TAX EACH:	.0000		
*****							
QUESTIONS ABOUT YOUR ORDER? CALL							

\*We hereby certify that these goods were produced in compliance with all applicable requirements of Section 6, 7, and 12 of the Fair Labor Standards Act, as amended, and of regulations and orders of the United States Department of Labor issued under Section 14 thereof.

THE PRODUCTS LISTED ABOVE MEET THE REQUIREMENTS AND SPECIFICATIONS OF THE STANDARDS UNDER THE OCCUPATIONAL SAFETY AND HEALTH ACT OF 1970.

PACKING LIST

80 14-10-28

## PACKING LIST



Aerospace

EATON INDUSTRIES MFG GMBH  
AV SANTA ROSALIA 9707  
PARQUE INDUSTRIAL  
PACIFICO II  
TIJUANA, BC 22643  
MEXICO  
(664) 978-1600

Shipper ID: TS102122

Cust. PO: 136748

Print Date: 10/21/14

SHIP TO	Customer ID: 00020324 ATTN VARGA ENTERPRISES INC 2350 SOUTH AIRPORT BLVD CHANDLER, AZ 85286-1701 UNITED STATES				SOLD TO	Customer ID: 00020324 VARGA ENTERPRISES INC 2350 SOUTH AIRPORT BLVD CHANDLER, AZ 85286-1701 UNITED STATES			
	Order #	Rev.	Order Date	Terms		FOB	Ship via		
A1149949	0	07/15/14	NET 30 DAYS FROM RECEIPT	TIJUANA, MX	UPS GROUND				
Bill of Lading		Salesperson		Shipment Tracking #		Weight	Packages		
				1z3w58v00361288407		0.0	0.0		
Remarks									

Customer Line #	Sales Line #	Part Number	Description	Rev.	Quantity Shipped	Promise Date	Required Date
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CONDUCT IS ACCESSIBLE THROUGH WWW.EATON.COM. NON LOCAL SUPPLIERS SEE  
WWW.EATONROUTE.COM FOR REQUIRED SHIPMENT METHOD

003 2 AE89347H COUPLING HALF\*\*\*E R A\*\*\*\*  
Frt Payment Method: COLLECT

D 6.00 09/30/14 09/30/14

Lot/Ser Nbr.  
4883183

Quantity  
6.0

Lot/Ser Nbr.

Quantity

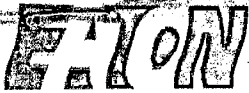
DATE 10/24/14  
QTY RECEIVED 6  
QTY REJECTED 0  
REASON \_\_\_\_\_  
DISPOSITION \_\_\_\_\_  
RECEIVED BY 1

FAA 8130-3 Tag Required: Yes ☐ FAA Repair Station: \_\_\_\_\_ DD250 Required: Yes ☐ Proforma Invoice Required: Yes ☐ Gov't Source Required: Yes ☐ Page: 2 of 2

CERTIFICATE OF CONFORMANCE

We hereby certify that the material requested under the Order No. above and supplied as per referenced Shipper No. has been manufactured in accordance with and conforms to all applicable specifications and standards of the customer noted herein, the U.S. Government, and the Federal Aviation Agency, as applicable. We further certify that all material and processing used in the manufacture of the parts conform to applicable specifications and/or drawings set forth in the purchase order or related documents. All required records, including chemical, physical and functional test reports are on file with us or our suppliers and are available for examination.

15021114  
Quality Representative [Signature] Date 10/21/14

**Aerospace**

EATON INDUSTRIES MFG GMBH  
AV SANTA ROSALIA 9707  
PARQUE INDUSTRIAL  
PACIFICO II  
TIJUANA, BC 22643  
MEXICO  
(664) 978-1600

**Shipper ID:** TS102122**Cust. PO:** 136748**Print Date:** 10/21/14

<b>S H I P T O</b>	Customer ID: 00020324 ATTN VARGA ENTERPRISES INC 2350 SOUTH AIRPORT BLVD CHANDLER, AZ 85286-1701 UNITED STATES			<b>S O L D T O</b>	Customer ID: 00020324 VARGA ENTERPRISES INC 2350 SOUTH AIRPORT BLVD CHANDLER, AZ 85286-1701 UNITED STATES		
	<b>Order #</b>	<b>Rev</b>	<b>Order Date</b>		<b>Terms</b>	<b>FOB</b>	<b>Ship via</b>
	A1149949	0	07/15/14	NET 30 DAYS FROM RECEIPT	TIJUANA, MX	UPS GROUND	
<b>Bill of Lading</b>		<b>Salesperson</b>		<b>Shipment Tracking #</b>	<b>Weight</b>	<b>Packages</b>	
				1z3w58v00361288407	0.0	0.0	
<b>Remarks</b>							

Customer Line #	Sales Line #	Part Number	Description	Rev.	Quantity Shipped	Promise Date	Required Date
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UNLESS ACCOMPANIED BY A FAA 8130-3 TAG OR EQUIVALENT CERTIFICATION PROVIDED BY A DULY AUTHORIZED EATON REPRESENTATIVE, THIS PART WAS MANUFACTURED TO AN INDUSTRY OR AEROSPACE OEM STANDARD WHICH MAY HAVE DUAL USE. THEREFORE, EATON IS NOT OFFERING THESE PARTS FOR INSTALLATION ON AN FAA TYPE CERTIFICATED PRODUCT UNLESS THE INSTALLER HAS FAA TYPE CERTIFICATE APPROVAL, OR OTHER REGULATORY APPROVAL, TO AUTHORIZE THE PART AND/OR NEXT HIGHER ASSEMBLY AIRWORTHINESS. (REF AC-21-29C).

ALL CUSTOMER PO TERMS AND CONDITIONS SHALL BE MET BY SUPPLIER. SUPPLIER IS TO ADHERE TO EATON AEROSPACE SUPPLIER QUALITY MANUAL EASQM. SUPPLIERS ARE TO ADHERE TO ALL REQUIREMENTS OF AS9100. SUPPLIERS MUST BE REGISTERED OR PROVEN COMPLIANT UNLESS OTHERWISE AUTHORIZED BY PO OR CONTRACT. AS9102 FIRST ARTICLE INSPECTION REPORTS ARE TO BE REVIEWED BY EATON JACKSON QUALITY OR THEIR DESIGNEE PRIOR TO SHIPMENT OF PRODUCT TO CUSTOMER. ALL CUSTOMER CORRECTIVE ACTIONS AND QUALITY ESCAPES TO BE MANAGED BY EATON JACKSON QUALITY MANAGER IN ACCORDANCE WITH EATON JACKSON QAP 8.5J1. PART IS PURCHASED COMPLETE FROM SUPPLIER. DFARS CLAUSE 252.225-7009 & 252.225-7016 APPLIES TO THIS ORDER. LOT TRACEABILITY NOT REQUIRED FOR THIS ORDER. SUPPLIER SHALL REVIEW ALL ENGINEERING DOCUMENTS AND SHOP FLOOR INSTRUCTIONS TO ASSURE COMPLIANCE WITH ALL SPECIFICATIONS. SUPPLIER MAY REQUEST REFERENCED SPECIFICATIONS VIA THE RESPONSIBLE PURCHASING AGENT. IT IS THE RESPONSIBILITY OF THE SUPPLIER TO FLOW DOWN ALL REQUIREMENTS TO ITS SUB-TIER SUPPLIERS AND ENSURE COMPLIANCE WILL ALL APPLICABLE SPECIFICATIONS. RAW MATERIAL AND PROCESS CERTIFICATIONS FOR COMPONENTS SUPPLIED BY TJ WILL BE RETAINED ON FILE AT TJ BE MADE AVAILABLE UPON REQUEST. CERTIFICATIONS FOR COMPONENTS SUPPLIED BY JACKSON WILL BE RETAINED ON FILE AT JACKSON AND MADE AVAILABLE UPON REQUEST. THE CODE OF SUPPLIER

FAA 8130-3 Tag Required: Yes <input type="checkbox"/>	FAA Repair Station: <input type="checkbox"/>	DD250 Required: Yes <input type="checkbox"/>	Proforma Invoice Required: Yes <input type="checkbox"/>	Gov't Source Required: Yes <input type="checkbox"/>	Page: 1 of 1
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**CERTIFICATE OF CONFORMANCE**

We hereby certify that the material requested under the Order No. above and supplied as per referenced Shipper No. has been manufactured in accordance with and conforms to all applicable specifications and standards of the customer noted herein, the U.S. Government, and the Federal Aviation Agency, as applicable. We further certify that all material and processing used in the manufacture of the parts conform to applicable specifications and/or drawings set forth in the purchase order or related documents. All required records, including chemical, physical and functional test reports are on file with us or our suppliers and are available for examination.

*[Signature]*  
Quality Representative

*[Signature]* 10/21/14  
Date



## SAE AS9102 Revision A

## Form 1 : Part Number Accountability

1. Part Number AE89347H	2. Part Name COUPLING HALF, SELF SEALING, FRANGIBLE, BULKHEAD	3. Serial Number N/A	4. FAI Report Number ID : 4883183
5. Part Revision Level D	6. Drawing Number AE89347H	7. Drawing revision level D	8. Additional Changes N/A
9. Manufacturing Process Reference WO: 348005	10. Organization Name Eaton Industries, S. de R.L. de C.V.	11. Supplier Code N/A	12. P.O. Number N/A
13. Detail FAI <input type="checkbox"/>	14. Full FAI <input checked="" type="checkbox"/>	Baseline Part Number including revision level AE89347H REV D	
Assembly FAI <input checked="" type="checkbox"/>	Partial FAI <input type="checkbox"/>		
Reason for Partial FAI:		N/A	





a) if above part number is a detail part only, go to Field 19

b) if above part number is an assembly, go to the "INDEX" section below.

## INDEX of part number or sub-assembly number required to make the assembly noted above.

15. Part Number	16. Part Name	17. Part Serial Number	18. FAI Report Number
AE24859-014	PACKING	E708363	N/A
AE83384G	VALVE	E910272	FAI REPORT NUMBER : 11260S0267 AERTECH MACHINING & MFG DATE : 01/29/2013
AE99349G	VALVE	E910272	FAI REPORT NUMBER : 11260S0267 AERTECH MACHINING & MFG DATE : 01/29/2013
AE71580H	BODY	E909925	FAI REPORT NUMBER : +AE71580H.A.500 ADVANCE TURNING & MFG., INC. 9/20/2011
22566-15	PACKING	E736425 E785302	N/A
AE89412H	ADAPTER	E910244	FAI REPORT NUMBER : PLUSAE89412H. NONE.500 ADVANCE TURNING & MFG., INC. DATE : 2/3/12
900803-1-10C	WIRE	E903648	FAI REPORT NUMBER : 6511 CLASSIC METAL FINISHING, INC DATE : 11/10/2009
22744-135	SPRING	E784671	FAIR REPORT NUMBER: 10549 WIRE PRODUCTS DATE : 9/30/11

## Form 1 : Part Number Accountability

1. Part Number  AE89347H	2. Part Name  COUPLING HALF, SELF SEALING , FRANGIBLE , BULKHEAD	3. Serial Number  N/A	4. FAI Report Number  ID : 4883183
5. Part Revision Level  D	6. Drawing Number  AE89347H	7. Drawing revision level  D	8. Additional Changes  N/A
9. Manufacturing Process Reference  WO: 348005	10. Organization Name  Eaton Industries, S. de R.L. de C.V.	11. Supplier Code  N/A	12. P.O. Number  N/A
13. Detail FAI    	14. Full FAI   Partial FAI 	Baseline Part Number including revision level AE89347H REV D  N/A	
Assembly FAI	Reason for Partial FAI:		

- a) if above part number is a detail part only, go to Field 19
- b) if above part number is an assembly, go to the : "INDEX" section below.

**INDEX of part number or sub-assembly number required to make the assembly noted above.**

[illegible]

1) Signature indicates that all characteristics are accounted for; meet drawing requirements or are properly documented for disposition.

**2) Also indicate if the FAI is complete per Section 5.4:**

**FAI complete**

FAI Not Complete

**19. Signature**

**SUSI MELGAR**

21. Reviewed by

IRMA LOPEZ

### 23. Customer Approval

20. Date	10/16/2014
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22. Date	10/16/2014
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24. Date	
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Form 2: Product Accountability - Raw Material, Specifications and Special Process (es),  
Functional Testing

1. Part Number	2. Part Name	3. Serial Number			4. FAI Report Number
AE89347H	COUPLING HALF , SELF SEALING , FRANGIBLE , BULKHEAD	N/A			ID : 4883183
5. Material or Process Name	6. Specification Number	7. Code	8. Special Process Supplier Code	9. Customer Approval Verification (Yes/No/Na)	10. Certificate of Conformance Number
AE24859-014 FLUOROSILICONE	MIL-R-25988 TYPE I CLASS I	N/A	DEPATIE FLUID POWER COMPANY KALAMAZOO 6256 AMERICAN AVENUE PORTAGE, MI 49002	N/A	BATCH NO. JDBF5
AE83384G 2024-T351 NITRILE	ACES 825M6 TYPE 1 CLASS 1	N/A	JACKSON FLEXIBLE PRODUCTS 7765 CLINTON ROAD JACKSON, MICHIGAN 49201	N/A	BATCH NO : 235
AE99349G 2024-T351 ALUM	QQ-A-225/6 ( AMS 4119 )	N/A	EARLE M.JORGENSEN COMPANY 1900 MITCHELL BLVD. SCHAUMBURG IL 60193	N/A	HEAT NUMBER : 10041418
AE71580H 17-4PH CRES COND H1075	AMS 5643	N/A	COPPER AND BRASS SALES INC 22355 WEST 11 MILE ROAD	N/A	HEAT NUMBER : G21147
AE71580H PASSIVATE	ACES 16P50	N/A	EATON AEROSPACE, CONVEYANCE SYSTEMS DIVISION JACKSON, MICHIGAN	N/A	WORK ORDER I.D. NUMBER : 56372091
22566-15 FLUOROCARBON	MIL-R-83248 TYPE 1 CLASS 1	N/A	DEPATIE FLUID POWER COMPANY KALAMAZOO 6256 AMERICAN AVENUE PORTAGE, MI 49002	N/A	BATCH NO. KKAV46
AE89412H 2024-T351 ALUMINUM	AMS 4120	N/A	EARLE M.JORGENSEN CO. 75 REMITTANCE DRIVE SUITE # 6477 CHICAGO	N/A	HEAT NUMBER : 10046262
AE89412H ANODIZE DYED RED	ACES 1758P1	N/A	CLASSIC METAL FINISHING, INC. 2500 WEST ARGYLE ST. JACKSON, MI 49202 US	N/A	JOB NUMBER : 18086-1
900803-1-10C 305 CRES	ACES 921M57	N/A	SIRI WIRE 90 WAUREGAN ROAD DANIELSON, CT 06239	N/A	HEAT NUMBER : 528516





Form 2: Product Accountability - Raw Material, Specifications and Special Process (es),  
Functional Testing

1. Part Number		2. Part Name		3. Serial Number		4. FAI Report Number					
AE89347H		COUPLING HALF , SELF SEALING , FRANGIBLE , BULKHEAD		N/A		ID : 4883183					
5. Material or Process Name		6. Specification Number		7. Code		8. Special Process Supplier Code		9. Customer Approval Verification (Yes/No/Na)		10. Certificate of Conformance Number	
900803-1-10C PASSIVATE		ACES 16P51		N/A		CMF, INC.- METAL FINISHING DIVISION 2500 WEST ARGYLE ST. JACKSON, MI 49202 UNITED STATES OF AMERICA		N/A		MFG LOT : 25718	
900803-1-10C DRY-FILM		ACES 9P1		N/A		CMF, INC.- METAL FINISHING DIVISION 2500 WEST ARGYLE ST. JACKSON, MI 49202 UNITED STATES OF AMERICA		N/A		MFG LOT : 25718	
22744-135 17-7PH CRES		AMS 5678		N/A		THE WIRE PRODUCS COMPANY, INC. 14601 INDUSTRIAL PARKWAY CLEVELAND, OHIO 44135		N/A		HEAT NUMBER : E111301	
22744-135 PASSIVATE		ACES 16P3		N/A		COMERCIAL ANODIZING COMPANY, INC. 38387 APOLLO PKWY WILLOUGHBY, OH 44094		N/A		P.O. NUMBER : 11256S	
22566-115 FLUOROCARBON		MIL-R-83248 TYPE 1 CLASS 1		N/A		DEPATIE FLUID POWER COMPANY KALAMAZOO 6256 AMERICAN AVENUE PORTAGE, MI 49002		N/A		BATCH NUMBER : KKAV46	
AE99352G 2024-T351 AL		AMS 4120		N/A		KAISER ALUMINUM FABRICATED PRODUCTS TENNALUM 309 INDUSTRIAL DRIVE JACKSON, TN 38301		N/A		LOT NUMBER : 10046291	
AE99352G ANODIZE DYED BLUE		ACES 1758P1		N/A		CMF, INC.- METAL FINISHING DIVISION 2500 WEST ARGYLE ST. JACKSON, MI 49202 UNITED STATES OF AMERICA		N/A		JOB NUMBER : 54978-01	







Form 2: Product Accountability - Raw Material, Specifications and Special Process (es),  
Functional Testing

1. Part Number  AE89347H	2. Part Name  COUPLING HALF , SELF SEALING , FRANGIBLE , BULKHEAD	3. Serial Number  N/A	4. FAI Report Number  ID : 4883183		
5. Material or Process Name	6. Specification Number	7. Code	8. Special Process Supplier Code	9. Customer Approval Verification (Yes/No/Na)	10. Certificate of Conformance Number
AE82926G 2024-T351 AL	QQ-A-225/6 ( AMS 4119 )	N/A	KAISER ALUMINUM FABRICATED PRODUCTS TENNALUM 309 INDUSTRIAL DRIVE JACKSON, TN 38301	N/A	LOT NUMBER : 10048054
AE82926G IRIDITE	ACES 16P5	N/A	CMF, INC.- METAL FINISHING DIVISION 2500 WEST ARGYLE ST. JACKSON, MI 49202 UNITED STATES OF AMERICA	N/A	JOB NUMBER : 130820
11. Functional Test Procedure Number	12. Acceptance report number, if applicable				
REQUEST CROSS REF. DWG AE89347H	TESTED WITH WATER AT 150 PSIG FOR 30 SECONDS ON 10/16/2014, ID: 4883183 ( REF. FQI-00027 )				
13. Comments	N/A				
14. Prepared By	SUSI MELGAR	15 Date	10/16/2014		

## Form 3: Characteristic Accountability, Verification and Compatibility Evaluation








1. Part Number  AE89347H				2. Part Name  COUPLING HALF, SELF SEALING, FRANGIBLE, BULKHEAD		3. Serial Number  N/A	4. FAI Report  ID : 4883183
Characteristic Accountability				Inspection / Test Results			
5. Char No.	6. Reference Location	7. Characteristic Designator	8. Requirement	9. Results	10. Designed Tooling	11. Non-Conformance Number	14. [Inserts columns, etc, as required by Organization of Customer]
1	A 8	NOTE	<b>NOTE 1</b> REF : ERA HELICOPTERS.	REFERENCE ONLY	N/A	N/A	N/A
2	A 8	NOTE	<b>NOTE 2</b> APPLICATION : FUEL.	NOTED	VISUAL	N/A	N/A
3	A 8	NOTE	<b>NOTE 3</b> PROTECTIVE TREATMENT : ALUM - ANODIZED PER MIL-A-8625 ( ACES 1758 ) OR CHEM CVRSN CTD PER MIL-C-5541 ( ACES 16 ) CRES - PASSIVATED PER QQ-P-35 ( ACES 16 )	CONFORMS SEE FORM 2	CERTIFICATE OF CONFORMANCE	N/A	N/A
4	A 8	NOTE	<b>NOTE 4</b> TEMPERATURE RANGE : -65° F TO + 165° F ( -54° C TO + 74° C )	ENGINEERING DESIGN	N/A	N/A	N/A
5	A 8	NOTE	<b>NOTE 5</b> PRESSURE INFORMATION : OPERATING : 75 PSIG PROOF : 150 PSIG MIN BURST : 300 PSIG	150 PSIG	TJMN-196	N/A	N/A
6	A 8	NOTE	 <b>NOTE 6</b> BENDING LOAD TO SEPARATE FRANGIBLE SECTION : 1170 TO 1657 IN. LB ( 300 TO 425 LB AT 3.9 IN. MOMENT ARM REF ) WHEN CONNECTED TO AE641-8 HOSE ASSEMBLY WITH STRAIGHT FITTINGS	ENGINEERING INFORMATION	N/A	N/A	N/A
7	A 8	NOTE	 <b>NOTE 7</b> THE ELECTRICAL RESISTANCE THROUGH THE COUPLED COUPLING SHALL NOT EXCEED 1 OHM	.075	TJTO-028	N/A	N/A
8	A 8	NOTE	 <b>NOTE 8</b> THREADS ARE IN CONFORMANCE WITH MIL-S-8879	CONFORMS	N/A	N/A	SEE CHART. No 30
9	A 8	NOTE	 <b>NOTE 9</b> FITTING END PER MS33656-8. STYLE " E" ( O' RING USE PERMISSIBLE ).	NOTED	VISUAL	N/A	N/A

## Form 3: Characteristic Accountability, Verification and Compatibility Evaluation

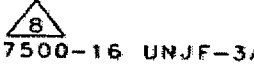




1. Part Number AE89347H				2. Part Name COUPLING HALF, SELF SEALING , FRANGIBLE , BULKHEAD		3. Serial Number N/A	4. FAI Report ID : 4883183
Characteristic Accountability				Inspection / Test Results			
5. Char No.	6. Reference Location	7. Characteristic Designator	8. Requirement	9. Results	10. Designed Tooling	11. Non-Conformance Number	14. [Inserts columns, etc, as required by Organization or Customer]
10	B 8	NOTE	 <b>NOTE 10</b> MATES WITH COUPLING HALF AE856	CONFORMS	USED MATING HALG AE99303E	N/A	MATING HALF OR EQUIVALENT
11	B 8	NOTE	 <b>NOTE 11</b> DIMENSION WHEN COUPLED WITH MATING HALF	CONFORMS	VISUAL	N/A	N/A
12	B 8	NOTE	 <b>NOTE 12</b> IMPRESSION STAMP PER ACES 20P3 OR P32 : " -A " PER ACES 70-2. " 00624-AE89347H REV (LTR) " " MFR-4N674 "	CONFORMS DATA MARKING: =A 00624-AE89347H REV D A09/14 2Q10 MFR-SDE34	VISUAL	N/A	IN ACCORDANCE WITH SHOP FLOOR INSTRUCTIONS SALES ORDER NUMBER: AW073113 L3
13	B 8	NOTE	 <b>NOTE 13</b> COLOR : DYED RED EXCEPT THIS SURFACE AND ITEM 9, VALVE , IRIDESCENT YELLOW	CONFORMS	VISUAL	N/A	N/A
14	B 8	NOTE	<b>NOTE 14</b> WEIGHT OF ASSEMBLY IN POUNDS : .165 CALCULATED	.1600	TJWM-059	N/A	N/A
15	B 8	NOTE	<b>NOTE 15</b> THE TENSION LOAD TO SEPARATE FRANGIBLE SECTION IN MATING COUPLING HALF IS 300 TO 500 LBS.	ENGINEERING INFORMATION	N/A	N/A	N/A
16	B 8	NOTE	 <b>NOTE 16</b> OPTIONAL MATERIAL : 15-5PH CRES COND H1075 PER AMS 5659	NOTED	N/A	N/A	N/A
17	B 7	MAJOR	<b>3.27 MAX UNCOUPLED LENGTH</b> 	2.496	TJCP-204	N/A	N/A

SAE AS9102 Revision A

## Form 3: Characteristic Accountability, Verification and Compatibility Evaluation

1. Part Number AE89347H				2. Part Name COUPLING HALF, SELF SEALING, FRANGIBLE, BULKHEAD		3. Serial Number N/A	4. FAI Report ID : 4883183
Characteristic Accountability				Inspection / Test Results			14. [Inserts columns, etc, as required by Organization or Customer]
5. Char No.	6. Reference Location	7. Characteris tic Designator	8. Requirement	9. Results	10. Designed Tooling	11. Non- Conforman ce Number	
18	B 7	MINOR	(2.458) 	REFERENCE ONLY	N/A	N/A	N/A
19	B 7	MINOR	(2.196)	REFERENCE ONLY	N/A	N/A	N/A
20	B 7	MINOR	(1.539)	REFERENCE ONLY	N/A	N/A	N/A
21	B 7	MAJOR	.239±.010	.242	TJCP-204	N/A	N/A
22	B 8	MINOR	(.395)	REFERENCE ONLY	N/A	N/A	N/A
23	C 8	NOTE	 ALTERNATE LOCATION	NOTED	N/A	N/A	N/A
24	C 7	MINOR	(.75) 	REFERENCE ONLY	N/A	N/A	N/A
25	C 7	NOTE		CONFORMS	VISUAL	N/A	N/A
26	C 8	NOTE		CONFORMS	VISUAL	N/A	N/A
27	C 8	NOTE		CONFORMS	VISUAL	N/A	N/A
28	C 8	NOTE		CONFORMS	VISUAL	N/A	N/A
29	C 8	MAJOR	Ø 1.062±.008	1.064	TJCP-204	N/A	N/A

## Form 3: Characteristic Accountability, Verification and Compatibility Evaluation

1. Part Number AE89347H				2. Part Name COUPLING HALF, SELF SEALING, FRANGIBLE, BULKHEAD		3. Serial Number N/A	4. FAI Report ID: 4883183
Characteristic Accountability				Inspection / Test Results			
5. Char No.	6. Reference Location	7. Characteristic Designator	8. Requirement	9. Results	10. Designed Tooling	11. Non-Conformance Number	14. [Inserts columns, etc, as required by Organization or Customer]
30	C 8	MAJOR		CONFORMS	VISUAL	N/A	SEE CERTIFICATE AE89412H HEAT NUMBER: 10046262 (E910244)
31	C 7	NOTE		CONFORMS	VISUAL	N/A	N/A
32	C 5	MINOR	(3.90) 	REFERENCE ONLY	N/A	N/A	N/A
33	C 5	MINOR	Ø (2.11)	REFERENCE ONLY	N/A	N/A	N/A
34	D 4	MAJOR	4X Ø .210±.005	.208	TJCP-204	N/A	N/A
35	D 3	MAJOR	2X 1.156±.005	1.155 / 1.153	TJCP-204	N/A	N/A
36	C 3	MAJOR	2X .578±.005	.577 / .577	TJCP-204	N/A	N/A
37	C 4	MAJOR	2X 1.594±.016	1.594 / 1.594	TJCP-204	N/A	N/A
38	B 2	NOTE	IDENTIFICATION 	CONFORMS	VISUAL	N/A	N/A
39	B 2	NOTE	FABRICATION AND ACCEPTANCE TEST ACES 1B12P3 	NOTED	N/A	N/A	N/A
40	A 3	NOTE	PART LIST	CONFORMS	VISUAL	N/A	N/A

The signature indicates that all characteristics are accounted for; meet drawing requirements or are properly documented for disposition.

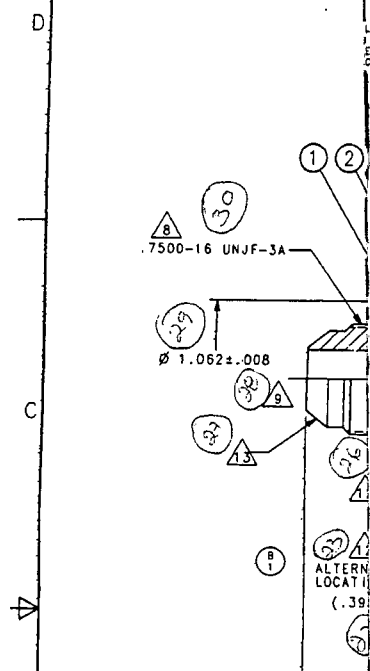
12. Prepared By  
SUSI MELGAR

13. Date  
10/16/2014

THIS DOCUMENT CONTAINS CONFIDENTIAL INFORMATION INCLUDING TRADE SECRETS, PROPRIETARY TO AEROCO OF THIS DATA TO YOU IS EXPRESSLY CONDITIONED. USE IS LIMITED TO USE WITHIN YOUR COMPANY ON MANUFACTURING OR REPROCUREMENT. ANY OTHER WITHOUT THE PRIOR WRITTEN CONSENT OF AEROCO

### REVISIONS

DESCRIPTION	DATE	APPROVED
WAS "PROPOSAL DRAWING"	07-23 -43	ENC30197 0818920- 078
ADDED ALTERNATE MARKING LOCATION	08-10 -93	ENC30208 "AQ" D11
ADDED NUTE 15	11-17 -93	ENC30284 "AQ" D11
ITEM NO. 8 P/N WAS "A980351H" MATL WAS "2024-T651 SPEC WAS "AMS 4120" (2) ADDED NUTE 18 (3) NUTE 12 "MARKING LOCATION" (4) NUTE 6 WAS "BEND LOAD TO L FRANGIBLE SECTION: 700-140 IN/LB (180-319 LB AT 1 INCH MOMENT ARM REF.) (5) WAS "(4.40) (6) WAS "2028M2" (7) NUTE 14 WAS "...POUNDS: .124 CULATED"	7-30 -97	ENC31241 "AQ" HM




- OPTIONAL MATERIAL:  
15-SPH CRES COND M1075 PER MAS 5659
- THE TENSION LOAD TO SEPARATE FRANGIBLE S IN  
WATING COUPLING HALF IS 300 TO 500 LB
- WEIGHT OF ASSEMBLY IN POUNDS: .165 CALCU
- COLOR: DYED RED EXCEPT THIS SURFACE AND  
ITEM 9, VALVE, IRIDESCENT YELLOW.
- IMPRESSION STAMP PER ACES 20P3 OR P52:  
"\*\*\*\*\*" PER ACES 70-2  
"00724-AE89347H REV (LTR)"  
"DIFR-4N674"
- DIMENSION WHEN COUPLED WITH MATING HALF.
- WATES WITH COUPLING HALF AE856CM.
- FITTING END PER M5336SB-8, STYLE "E"  
("ORING USE PERMISSIBLE").
- THREDS ARE IN CONFORMANCE WITH MIL-S-887
- THE ELECTRICAL RESISTANCE THROUGH THE COU  
PLING SHALL NOT EXCEED 1 OHM.
- BENDING LOAD TO SEPARATE FRANGIBLE SECTION  
1170 TO 1657 LBS MIN 300 TO 425 LB AT  
CONNECTED TO AE647-H HOSE ASSEMBLY WITH
- PRESSURE INFORMATION:  
OPERATING: 75 PSIG  
PROOF: 150 PSIG  
MIN BURST: 300 PSIG
- TEMPERATURE RANGE:  
-55°F TO +165°F (-54°C TO +74°C)
- TREATMENT:  
ALUM - ANODIZED PER MIL-A-8825 (ACES 1)  
CHEN CHVEN CTO PER MIL-C-5541 (ACES 1)  
CRES - PASSIVATED PER QQ-P-33 (ACES 18)
- APPLICATION: FUEL.
- REF: ARE HELICOPTERS.

CLASSIFICATION	12	06
CLASSIFICATION AND EXTENSION TEST	ACES 1812P3	7

59-014	FLUOROSILICONE	MIL-R-2598B
84G	SEE COMPONENTS LISTED	
49G	2024-T351 AL	AMS 4120
D	NITRILE	
80H	17-4PH CRES	AMS 5643
-15	FLUOROCARBON	MIL-R-83248
12H	2024-T351 AL	AMS 4120
87 3-1-10C	305 CRES	AMS 5685
-135	17-7PH CRES	AMS 5678
ou -115	FLUOROCARBON	MIL-R-83248
52G	2024-T351 AL	AMS 4120
126G	2024-T351 AL	AMS 4120

PART NO.	MATL	SPEC
----------	------	------

ST OF MATERIALS

DATE 06-20-93	 <b>AEROQUIP CORPORATION</b> Aeroquip Group Jackson, Michigan, U.S.A.		
DATE 04-23-93			
DATE 07-23-93			
DATE 07-23-93			
17 (A) DATE 07-23-93	DRAWING TITLE		
APC NO. BU	COUPLING HALF, SELF SEALING FRANGIBLE, BULKHEAD		
	C470M	1812	C620M
	SIZE	CODE IDENT NO.	DRAWING NUMBER
-23-93	D	00624	AE89347H
	SCALE	2/1	U STANDARD SHEET SHEET 1

REV: 4-1-93



Aerospace EATON AEROQUIP LLC  
EAST AVE PLANT  
300 S. EAST AVE  
JACKSON, MI 49203-1972  
UNITED STATES  
517-787-8121

Packslip: HS337260

Cust. PO: 42HP644

Print Date: 09/09/14

SHIP TO	Customer ID: C8580A			SHIP TO	Customer ID: C8580A		
	ATTN EATON AEROSPACE C/O BROKERAGE & LOGISTICS SOLUTIONS INC 1659 GAILES AVE SAN DIEGO, CA 92154 UNITED STATES				EATON AEROSPACE C/O BROKERAGE & LOGISTICS SOLUTIONS INC 1659 GAILES AVE SAN DIEGO, CA 92154 UNITED STATES		
Order	Rev	Order	Terms	FOB	Ship via		
42HP644	0		NET 30 DAYS FROM INVOICE	JACKSON, MICHIGAN	FEDEX GROUND		
Bill of Lading		Salesperson		Shipment		Weight	
		Husted, Steve		HS337260		0.0	
Package							
0.0							
Remarks							
Customer Line #	Sales Line #	Part Number	Description	Rev.	Quantity Shipped	Promise Date	
1		AE89412H	ADAPTER-CPL		6.00 EA	09/08/14	
						09/08/14	

EATON AEROSPACE **INSPECTION REQUIRED** POR

DESC:  
ADAPTER

ITEM: AE89412H

REVISION:

NO

LOT: E910244

RCV'D: 09/12/2014

USER ID:

E3027592

WORK ORD ID:

SUPPLIER: 42001190

PO/WO: 42HP644

QTY:

6

RECEIVER: E910244

POINT OF USE:

04A03021

DELIVER TO: REGINS

CURE DATE:

INSPECTOR SIGNATURE:

INSPECTION STAMP:

*B. C.*



1020836/10  
9/10/14  
RA  
UPSN  
1/20

FAA 8130-3 Tag	Yes <input type="checkbox"/>	FAA Repair	DD250	Yes <input type="checkbox"/>	Proforma Invoice Req'D Yes <input type="checkbox"/>	Gov't Source Req'D Yes <input type="checkbox"/>	Page 1 of 1
<b>CERTIFICATE OF CONFORMANCE</b> We hereby certify that the material requested under the Order No. above and supplied as per referenced Shipper No. has been manufactured in accordance with and conforms to all applicable specifications and standards of the customer noted herein, the U.S. Government, and the Federal Aviation Agency, as applicable. We further certify that all material and processing used in the manufacture of the parts conform to applicable specifications and/or drawings set forth in the purchase order or related documents. All required records, including chemical, physical and functional test reports are on file with us or our suppliers and are available for examination. EATON CORPORATION <i>Kevin Crech</i> Kevin Crech Quality Manager							

Invoice HS337260	Purchase Order	Order	Quote	Customer	Output terminal
---------------------	----------------	-------	-------	----------	--------------------

## Invoice History

Invoice: HS337260	Invoice Date: 09/10/14	Required Date:
Sales Order: 42HP644	Order Date:	Due Date:
Purchase Order:		Quote:
Customer: C9707	Ship-To: C8580A	SAN DIEGO CA
Ship Via: FEDEX GROUND		Ship Date: 09/10/14
BOL: consol		

## Line Items

Ln	Item Number	Site	UM	Qty Ordered	Qty Invoiced	Due
1	AE89412H	HPD	EA	0.0	6.0	09/08/14

Press space bar to continue.



**Form 2: Product Accountability - Raw Material, Specification and Special Process (es), Functional Testing**

[illegible]

## SAE AS9102 Revision A

Sheet 1 of 3

## Form 3: Characteristic Accountability, Verification and Compatibility Evaluation

1. Part Number AE89412H				2. Part Name ADAPTER			3. Serial Number N/A	4. FAI Report AE89412H.NONE.500
Characteristic Accountability				Inspection / Test Results				
5. Char No.	6. Reference Location	7. Char Desig	8. Requirement	9. Results	10. Measurement Gages or Dedicated Tooling	11. Non-Conformance Number	14. Notes	
1	A4		NOTE 1	INFORMATION NOTED	VISUAL			
2	A4		NOTE 2	INFORMATION NOTED	VISUAL			
3	A4		NOTE 3	INFORMATION NOTED	VISUAL			
4	A4		NOTE 4	INFORMATION NOTED	VISUAL			
5	A4		NOTE 5	INFORMATION NOTED	VISUAL			
6	A4		NOTE 6	INFORMATION NOTED	VISUAL			
7	A4		NOTE 7	INFORMATION NOTED	VISUAL			
8	A4		NOTE 8	CONFORMS	VISUAL			
9	A4		NOTE 9	INFORMATION NOTED	VISUAL			
10	A4		NOTE 10	LESS PER P.O	LESS PER P.O			
11	B4		NOTE 11	INFORMATION NOTED	VISUAL			
12	B4		NOTE 12	0.0	INDICATOR			
13	B4		NOTE 13	0.0	INDICATOR			
14	B4		NOTE 14	.001	INDICATOR			
15	B3		30° ± 2°	30°	MOLD			
16	B3		.080±.005	.82	MOLD			
17	B3		.320±.002	.3208	MOLD			
18	B3		.076±.002	.076	MOLD			
19	B3		.644±.002	.6446	DEPTH MICS			
20	B3		.668±.005	.6702	MOLD			
21	B3		.125 MIN.	INFORMATION NOTED	VISUAL			
22	B3		FULL R	FULL R	MOLD			
23	B3		.030-.050	.040R	COMPARATOR			
24	B3		.020R	.020R	MOLD			
25	B3		.025R	.025R	COMPARATOR			
26	B3		.005-.020	.015R	COMPARATOR			
27	B4		.750-16 UNJF-3A	CONFORMS	TRI-ROLL & SEGMENT			

1. Part Number AE89412H				2. Part Name ADAPTER			3. Serial Number N/A	4. FAI Report AE89412H.NONE.500
Characteristic Accountability				Inspection / Test Results				
5. Char No.	6. Reference Location	7. Char Desig	8. Requirement	9. Results	10. Measurement Gages or Dedicated Tooling	11. Non-Conformance Number	14. Notes	
28	B4		.005 MAX	.03R	COMPARATOR			
29	B4		.012 MIN	.0185	COMPARATOR			
30	C4		.426±.003	.4254	COMPARATOR			
31	C4		.391±.004	.389	PLUG GAGES			
32	C3		250 MICROFINISH	CONFORMS	VISUAL			
33	C3		30°	30°	MOLD			
34	C3		.329 REF	.332	DEPTH MICS			
35	C3		.941-.946	.9435	ID GROOVE GAGE			
36	C2		.4120 BASIC	.4120 BASIC	MOLD			
37	C2		.449 REF.	.4501	MOLD			
38	C2		.863-.865	.864	PLUG GAGES			
39	C2		.950±.005	.951	PLUG GAGES			
40	B3		63 MICROFINISH	CONFORMS	VISUAL			
41	C3		.660 +.002/- .003	.6596	BLADE MICROMETERS			
42	C3		100 MICROFINISH	CONFORMS	VISUAL			
43	C4		100 MICROFINISH	CONFORMS	VISUAL			
44	C4		37°	37°	COMPARATOR			
45	C4		.654 +.000/- .005	.6523	MICROMETERS			
46	C4		.741-.750	.7456	MICROMETERS			
47	C4		.986±.010	INFORMATION NOTED	VISUAL			
48	C4		1.062±.008	1.063	MICROMETERS			
49	D3		.253 +.015/- .000	.2613	COMPARATOR			
50	D3		45° ± 5°	45°	COMPARATOR			
51	D3		.094 +.015/- .000	.1011	COMPARATOR			
52	D3		.657±.015	.6568	DEPTH MICS			
53	D3		100 MICROFINISH	CONFORMS	VISUAL			
54	D3		1.502 REF	1.5015	HEIGHT STAND			
55	D3		.845±.005	.845	HEIGHT STAND			

## Form 3: Characteristic Accountability, Verification and Compatibility Evaluation

Sheet 3 of 3

1. Part Number AE89412H				2. Part Name ADAPTER			3. Serial Number N/A	4. FAI Report AE89412H.NONE.500
Characteristic Accountability				Inspection / Test Results				
5. Char No.	6. Reference Location	7. Char Desig	8. Requirement	9. Results	10. Measurement Gages or Dedicated Tooling	11. Non-Conformance Number	14. Notes	
56	D2		.450±.005	.4505	HEIGHT STAND			
57	D2		.239±.010	.2395	DISC MICROMETERS			
58	D2		2.094±.015	2.0953	MICROMETERS			
59	D3		1.050±.005	1.0504	MICROMETERS			
60	D2		1.156±.005	1.1548	CMM			
61	D2		.578±.005	.5779	COMPARATOR			
62	D2		.645±.005	.6425	COMPARATOR			
63	C2		45°	45°	COMPARATOR			
64	C1		.078±.005	.077	PLUG GAGES			
65	C1		.141±.005	.141	COMPARATOR			
66	C1		.380±.005	.3765	CMM			
67	C1		.434±.005	.4305	CMM			
68	C2		.797±.016	.7977	CMM			
69	C2		1.594±.016	1.595	MICROMETERS			
70	B2		.210±.005	.207	PLUG GAGES			
71	B1		.056 REF	.052	COMPARATOR			
72	B1		60°	60°	COMPARATOR			
73	B1		.005-.020	.0085	COMPARATOR			
74	A1		FINISH SPEC	SEE CERT	VISUAL			
75	A1		FINISH	SEE CERT	VISUAL			
76	A1		MATERIAL SPEC	SEE CERT	VISUAL			
77	A1		MATERIAL	SEE CERT	VISUAL			
78	A3		BLOCK TOLERANCE	INFORMATION NOTED	VISUAL			

12. Prepared By *Tammy Knox*

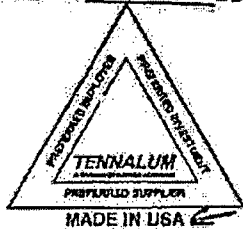
13. Date *2-2-12*

Lot # MGBW Date 7-13-11 BDA

10f2

# KAISER ALUMINUM FABRICATED PRODUCTS

Tennalum  
PO Box 669  
Jackson, TN 38302  
731-423-2811



CERTIFIED TEST REPORT  
<http://Certs.KaiserAluminum.com>

R 39675+

CUSTOMER PO NUMBER: P365113423-3		CUSTOMER PART NUMBER: 513000		PRODUCT DESCRIPTION: Cold Finished Round	
KAISER ORDER NUMBER: 667696	LINE ITEM: 3	SHIP DATE: 03/21/2011	ALLOY: 2024	TEMPER: T351	
WEIGHT SHIPPED: 8458 lbs.	QUANTITY: 125 pcs.	BIL NUMBER: 32180	DIAM/DEPTH/THICK: 2.125 in.	WIDTH: 0.000 in.	LENGTH: 144.0 in.
SHIP TO:  EMJ 1900 Mitchell Blvd Schaumburg, IL 60193 USA			SOLD TO:  EMJ 1900 Mitchell Blvd Schaumburg, IL 60193 USA		

Test Code: 1000 AC

## Actual Physical Properties

Lot Number	LONG. UTS ksi	LONG. YTS ksi	LONG. ELONG. %
10028923	67.3 67.9	50.2 50.8	23.0 26.0

## Chemical Composition, WT. % (Aluminum Remainder)

	Si	Fe	Cu	Mn	Mg	Cr	Zn	Ti	OTHERS EACH	OTHERS TOTAL	Lot
Actual	0.16	0.19	4.6	0.80	1.4	0.02	0.05	0.01			10028923
Max	0.50	0.50	4.9	0.9	1.8	0.10	0.25	0.15	0.05	0.15	
Min			3.8	0.30	1.2						

## Specifications

Standard: ISO 9001, ASTM B211-03, AMS 4120R, AMS-QQ-A-225/6A

## CERTIFICATION

Kaiser Aluminum & Chemical Corporation ("Kaiser") hereby certifies that the metal shipped under this order has been inspected and tested and found in conformance with the applicable specifications forming a part of the description set forth in Kaiser's sales acknowledgement form. Any warranty is limited to that shown on Kaiser's general terms and conditions of sale. Test reports are on file, subject to examination.

John Rennekamp, Quality Manager

*John Rennekamp*

Plant Serial: 152338

Kaiser Order Number: 667696

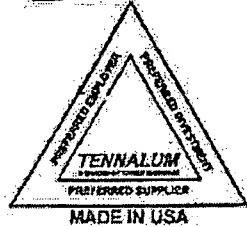
Line Item: 3

Lot# MGBW Date 9-13-11 BDA

2 of 2

**KAISER**  
**ALUMINUM**  
FABRICATED PRODUCTS

Tennalum  
PO Box 669  
Jackson, TN 38302  
731-423-2811



**CERTIFIED TEST REPORT**  
<http://Certs.KaiserAluminum.com>

### Miscellaneous Notes

Made in USA ←

This material was melted and manufactured in the USA. Mercury is not a normal contaminant in aluminum alloys. Neither mercury nor any of its compounds were utilized by Kaiser Aluminum in the manufacture of this material. AS9100B:2004 This material meets the requirements of T4 temper and of QQ-A-225/6E Amendment 1 (CANCELLED). Material is RoHS compliant.

### CERTIFICATION

Kaiser Aluminum & Chemical Corporation ("Kaiser") hereby certifies that the metal shipped under this order has been inspected and tested and found in conformance with the applicable specifications forming a part of the description set forth in Kaiser's sales acknowledgement form. Any warranty is limited to that shown on Kaiser's general terms and conditions of sale. Test reports are on file, subject to examination.

John Rennekamp, Quality Manager

Plant Serial: 152338

Kaiser Order Number: 667696

Page 2 of 2

Line Item: 3



CLASSIC METAL FINISHING, INC.  
2500 WEST ARGYLE ST.  
JACKSON, MI 49202  
US

Ph: 517-990-0011  
Fax: 517-990-0257

### Pack List

Number: 74668

Date: 02-Feb-12

#### To

ADVANCE TURNING  
4901 JAMES MCDIVITT RD  
JACKSON, MI 49201

#### Ship To

Lorie Tripp  
Lee Blake Precision  
4901 JAMES MCDIVITT RD  
JACKSON, MI 49201

Ph: 517-750-3580

Fax: 517-750-3979

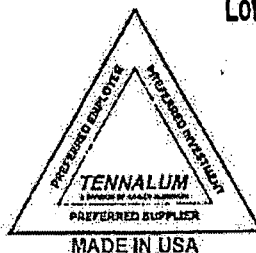
Ph: 517-750-3580

Fax: 517-750-3979

<b>Terms</b>		<b>Ship Via</b>																	
Net 30 Days		Our Truck																	
<b>Quantity</b>	<b>Description</b>																		
5 ea	Part: AE89412H Adapter Job: 18086-1 Anodize per ACES 1758P1.Red RUN# 500																		
	Rev: NONE PO: 2112LT09 Line: 1																		
<b>Certificate of Compliance</b>  ISO 9001:2008 / AS9100:B Certified      NADCAP Certified, Audit #139279 Exp. Date: April 9, 2014      Exp. Date: July 31, 2013  Classic Metal Finishing certifies that all product meets requirements of the purchase agreement.  Classic Metal Finishing reserves the right to void a certificate of conformance for any parts that have been anodized or chemical conversion coated if they have subsequently been subjected to temperatures above 140 degrees F during either internal or external processing.  Classic Metal Finishing certifies that all Special Processes were performed per the latest revision of the following specifications:  <table border="0"><tr><td>Process:</td><td>Specification:</td></tr><tr><td>Type II &amp; Type III Anodize</td><td>MIL-A-8625F (ACES 1758-BD)</td></tr><tr><td>Type II Passivation</td><td>AMS 2700E (ACES 16P50-DD, ASTM A 967-05)</td></tr><tr><td>Type VII Passivation</td><td>AMS 2700E (ACES 16P51-DE, ASTM A 967-05)</td></tr><tr><td>Chemical Conversion Coat</td><td>MIL-DTL-5541F (ACES 16P5-CP &amp; 16P25-CC)</td></tr><tr><td>Dry Film Lubrication</td><td>ACES 9 (BH)</td></tr><tr><td>Mechanical Clean / Blast</td><td>ACES 16P4 (BU) and 16P10 (BV)</td></tr><tr><td>Teflon Coat</td><td>ACES 1758 (BD)</td></tr></table> Classic Metal Finishing inspection meets or exceeds ANSI/ASQC Z1.4-2003 General Inspection Level II sampling requirements.  Authorized by : Sam Absher, Engineering Manager  Form #75-11      Revision: S (1/27/12)				Process:	Specification:	Type II & Type III Anodize	MIL-A-8625F (ACES 1758-BD)	Type II Passivation	AMS 2700E (ACES 16P50-DD, ASTM A 967-05)	Type VII Passivation	AMS 2700E (ACES 16P51-DE, ASTM A 967-05)	Chemical Conversion Coat	MIL-DTL-5541F (ACES 16P5-CP & 16P25-CC)	Dry Film Lubrication	ACES 9 (BH)	Mechanical Clean / Blast	ACES 16P4 (BU) and 16P10 (BV)	Teflon Coat	ACES 1758 (BD)
Process:	Specification:																		
Type II & Type III Anodize	MIL-A-8625F (ACES 1758-BD)																		
Type II Passivation	AMS 2700E (ACES 16P50-DD, ASTM A 967-05)																		
Type VII Passivation	AMS 2700E (ACES 16P51-DE, ASTM A 967-05)																		
Chemical Conversion Coat	MIL-DTL-5541F (ACES 16P5-CP & 16P25-CC)																		
Dry Film Lubrication	ACES 9 (BH)																		
Mechanical Clean / Blast	ACES 16P4 (BU) and 16P10 (BV)																		
Teflon Coat	ACES 1758 (BD)																		

# KAISER ALUMINUM FABRICATED PRODUCTS

Tennalum  
309 Industrial Drive  
Jackson, TN 38301  
731-423-2811



Lot # MQRQ Date 5-1-14 BDA

## CERTIFIED TEST REPORT

<http://Online.KaiserAluminum.com>

R288450

CUSTOMER PO NUMBER: P565451423-7		CUSTOMER PART NUMBER: 513000		PRODUCT DESCRIPTION: Cold Finished Round ←	
KAISER ORDER NUMBER: 694189	LINE ITEM: 7	SHIP DATE: 02/10/2014	ALLOY: 2024 ←	TEMPER: T351 ←	
WEIGHT SHIPPED: 6300 lbs.	QUANTITY: 122 pcs.	B/L NUMBER: 36496	DIAM/DAF/THKNS: 2.125 in. ←	WIDTH: 0.000 in.	LENGTH: 144.0 in.
SHIP TO:  EMJ 1900 Mitchell Blvd Schaumburg, IL 60193 USA			SOLD TO:  EMJ 1900 Mitchell Blvd Schaumburg, IL 60193 USA		

Test Code: 1000 AC

### Actual Physical Properties

Lot Number	LONG. UTS ksi	LONG. YTS ksi	LONG. ELONG. %
10046262	67.0	51.6	23.0
↑	66.6	51.4	23.0
	69.8	53.1	24.5
	70.4	53.1	22.0

### Chemical Composition, WT. % (Aluminum Remainder)

	Si	Fe	Cu	Mn	Mg	Cr	Zn	Ti	OTHERS EACH	OTHERS TOTAL	Lot
Actual	0.09	0.14	4.5	0.76	1.3	0.02	0.08	0.01			10046262
Max	0.50	0.50	4.9	0.9	1.8	0.10	0.25	0.15	0.05	0.15	
Min			3.8	0.30	1.2						

### Specifications

Standard: ISO 9001, ASTM B211-12, AMS 4120R, AMS-QQ-A-225/6A



### CERTIFICATION

Kaiser Aluminum Fabricated Products, LLC ("Kaiser") hereby certifies that the metal shipped under this order has been inspected and tested and found in conformance with the applicable specifications forming a part of the description set forth in Kaiser's sales acknowledgment form. Any warranty is limited to that shown on Kaiser's general terms and conditions of sale. Test reports are on file, subject to examination.

John Rennekamp, Quality Manager

*John Rennekamp*

Plant Serial: 199269

Kaiser Order Number: 694189

Line Item: 7

+AE89412H RUN 503 Revision NO  
Customer: ADVANCE TURNING & MFG

Ord #: S289476 Part #:

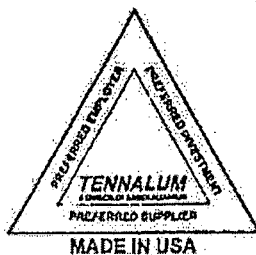
Cust PO#: 306288/MQRQ

Lot# **MQRQ** Date **5-17-14** BDA

# KAISER ALUMINUM

FABRICATED PRODUCTS

Tennalum  
309 Industrial Drive  
Jackson, TN 38301  
731-423-2811



## CERTIFIED TEST REPORT

<http://Online.KaiserAluminum.com>

### Miscellaneous Notes

Made in USA ←

This material was melted and manufactured in the USA. Mercury is not a normal contaminant in aluminum alloys. Neither mercury nor any of its compounds were utilized by Kaiser Aluminum in the manufacture of this material. AS9100C:2009. The recording of false, fictitious or fraudulent statements or entries on the certificate may be punished as a felony under federal law.

This material meets the requirements of T4 temper and of QQ-A-225/6E Amendment 1 (CANCELLED). This material is RoHS 2 compliant.

### CERTIFICATION

Kaiser Aluminum Fabricated Products, LLC ("Kaiser") hereby certifies that the metal shipped under this order has been inspected and tested and found in conformance with the applicable specifications forming a part of the description set forth in Kaiser's sales acknowledgement form. Any warranty is limited to that shown on Kaiser's general terms and conditions of sale. Test reports are on file, subject to examination.

John Rennekamp, Quality Manager

Page 2 of 2

Plant Serial: 199269  
Kaiser Order Number: 694189  
Line Item: 7

FROM: EARLE M. JORGENSEN COMPANY  
1900 MITCHELL BLVD.

S.I.D. ORDER NO. S289476

ORDERED BY: DEREN

PHONE: 517 750-3580

CUST. ORD. NO.: 306288/MQRQ

SCHAUMBURG

ADVANCE TURNING & MFG

ADVANCE TURNING & MFG

4901 JAMES MCDIVITT  
JACKSON

4901 JAMES MCDIVITT  
JACKSON

MI 49201

MI 49201

FAX: 517 7503979

PAGE 2 OF 2 MQRQ  
523-1  
B231342

REFER #

DATE ORD	CUSTOMER P.O.	F.O.B.	DEL AREA	VIA	CUST. ACCT.	PROM. DATE
29-APR-14	306288/MQRQ	DESTIN	500-1	OUR TRUCK	111812	01-MAY-14
ORDER WGT.	VS 640	TERR.	TYPE	TAX RATE	PPD/COLL	C.O.D.
155	OTILIO ROMAN		S		PREPAID	2
				TEST REPORT	8	PRO #
						YY
						SHIP DATE
						01-MAY-14

513000  
36 FT

2024-T351 CF BAR AMS QQ A 225/6. QQ A 225/6  
2-1/8 RD S/C 4' R/L

155.0000 LB

PT#

RED

JOB/BTCH#

W/FT 4.3100

EXT WGT:

155  
PO LN#

306288/MQRQ

\*\*\* PACKAGE IN A REDI-CRATE FOR PROTECTION  
\*\*\* HANDLE WITH CARE  
\*\*\* NO TAPE ON BARS  
\*\*\* DO NOT MIX HEATS IN BUNDLES/REDI-CRATES  
CUTTING SAW CUT IN THIRDS  
PACKAGING REDI CRATE

1) sales subject to US Export Administration Regulations.

lease refer to <http://www.emjmetals.com/about/Terms.htm>

HEAT # 10046262

LOCATION:K-10764

1 BOX 9 PC

155 LB 10

RECEIVED ABOVE GOODS IN TERMS AND CONDITIONS APPEARING ON BACK OF INVOICE				INVOICE AMT.		ADDITIONAL CHARGES		V.A.T. TAX		TAX/AMT.		TOTAL	
NO. OF PKGS	PKG. TYPE	NO. OF PKGS	PKG. TYPE	TOTAL PKGS	DESCRIPTION OF ARTICLES	SHIP WGT.	CLS	FREIGHT CHARGES ARE TO BE PAID UNLESS THIS BLOCK IS CHECKED BY SHIPPER		Subject to Section 7 of conditions, if this statement is to be forwarded to the consignee without return to the shipper, the shipper shall sign the following statement: The carrier shall not make delivery of the consigned without payment of freight and all other lawful charges. (Signature of Consignor)		C.O.D. AMOUNT	
1	11				ALUMINUM BAR	13	060						
PACKING SLIP				1	TOTAL	155		CARRIER SEND FREIGHT BILL TO:				C.O.D. FEE TO BE PAID BY SHIPPER <input type="checkbox"/> CONSIGNEE <input type="checkbox"/>	
								SHIPPER <input checked="" type="checkbox"/>				CARRIER <input type="checkbox"/>	
								AGENT				PER:	

+AE89412H RUN 503 Revision NO



James McDivitt Road Facility

**Certificate of Conformance**

PO - Line HPS012VA 023

Part +AE89412H

Revision NO

Run 503

Qty 6

MfgLot 00044961S138V

Eaton Corporation  
East Avenue Plant  
300 S. East Ave  
Jackson  
49203

AEHOSE

MI  
USA

Lot	Type	Spec	Raw Material	Heat	Vendor
Part		Run	SpecR		PO - Line
MQRQ 2024-T351 AMS 4120 2.125 RD			R	10046262	EARLE M. JORGENSEN CO.
+AE89412H		503			306288 30

**Material Vendor Addresses**

EARLE M. JORGENSEN CO.  
75 REMITTANCE DRIVE  
SUITE #6477  
CHICAGO IL 60675-6477 USA

Process	Spec	Outsource	Cert	Vendor
Part	Run	SpecR		PO - Line
ANODIZE DYED RED	ACES 1758P1	BD	Run 503	CLASSIC METAL FINISHING
+AE89412H	503			307776 10

**Outsource Vendor Addresses**

CLASSIC METAL FINISHING  
2500 WEST ARGYLE ST  
JACKSON MI 49202 USA

**Certifying Statement:**

We do hereby certify the above part was manufactured in accordance with the engineering drawings and/or specifications on said purchase order.

Test reports are on file and subject to examination and indicate

conformance to specified requirements. Copies of the test reports are available upon request.

Results of tests included in such certifications are based on standard practices.

Thread conformance inspected per Advance Turning internal sampling plan.

Part sampling pulled meets or exceeds ANSI/ASQ Z1.4-2008 sampling.

Where applicable, products are produced from materials that contain no RoHS restricted substances per the directive 2011/65/EU and/or DFARS 252.225-7014(Alt#1).

Certified By: Mike\_Koziol

Quality Technician

8/21/2014

*Mike Koziol*

FROM: EARLE M. JORGENSEN COMPANY  
1900 MITCHELL BLVD.

S.I.D. ORDER NO. S289476

ORDERED BY: DEREN

PHONE: 517 750-3580

CUST. ORD. NO.: 306288/MQRQ

ADVANCE TURNING & MFG

SCHAUMBURG

ADVANCE TURNING & MFG

4901 JAMES MCDIVITT  
JACKSON

MI 49201

4901 JAMES MCDIVITT  
JACKSON

MI 49201

FAX: 517 7503979

PAGE 1 OF 2  
523-1  
B231342

XFER #

DATE ORD. 29-APR-14	CUSTOMER P.O. 306288/MQRQ	F.O.B.	DEL AREA 500-1	VIA OUR TRUCK	CUST. ACCT. 111812	PROM. DATE 01-MAY-14
ORDER WGT. 155	US 640 OTILIO ROMAN	TERR. S	TAX RATE	PPD/COLL PREPAID	C.O.D. 2	TEST REPORT B
PRO #					YY	SHIP DATE 01-MAY-14

\*\*\* CF BARS SPRAYED W/RUST INHIBITOR  
\*\*\* ROSEVILLE SPRAY AGAIN  
\*\*\* KAISER MATERIAL ONLY ON ALL HEXES-NO IMPOL ALLOWED  
\*\*\* KEEP HEATS SEPARATE AFTER BUNDLE CUTTING

The property described below in apparent good order except as noted (contents and condition of contents unknown) packed, consigned and destined as indicated below, which said carrier, the said carrier being understood throughout this contract as meaning any person or corporation in possession of the property under the contract agrees to carry to its usual place of delivery at said destination if on its route, otherwise to deliver to another carrier on the route to said destination if it is mutually agreed as to each carrier of all or any of said property over all or any portion of said route to destination and as to each party at any time interested in all or any of said property that every service to be performed hereunder shall be subject to all terms and conditions of the Uniform Domestic Freight Bill of Lading set forth (1) in Official, Southern, Western, and Illinois Freight Classification in effect on the date hereof, if this is a rail or rail water shipment, or (2) in the applicable motor carrier classification or tariff if this is a motor carrier shipment. Shipper hereby certifies that he is familiar with all the terms and conditions of the said bill of lading, including those on the back hereof, and that the classification or tariff which governs the transportation of this shipment and the said terms and conditions are hereby agreed to by the shipper and accepted for himself and his assigns.

RECEIVED ABOVE GOODS IN TERMS AND CONDITIONS APPEARING ON BACK OF INVOICE					INVOICE AMT.		ADDITIONAL CHARGES		V.A.T. TAX		TAX/AMT.		TOTAL	
NO. OF PKGS	PKG. TYPE	NO. OF PKGS	PKG. TYPE	TOTAL PKGS	DESCRIPTION OF ARTICLES	SHIP WGT.	CLS	FREIGHT CHARGES ARE TO BE PRE- PAID UNLESS THIS BLOCK IS CHECKED.			Subject to Section 7 of schedule, if this shipment is to be forwarded to the consignee without receipt on the carrier, the consignee shall sign the delivery statement. The carrier shall not make delivery of this shipment without payment of freight and all other lawful charges. (Signature of Consignee)			C.O.D. AMOUNT
								CARRIER SEND FREIGHT BILL TO:			C.O.D. FEE TO BE PAID BY SHIPPER <input type="checkbox"/> CONSIGNEE <input type="checkbox"/>			
											CARRIER			
											AGENT			
											PER			
PACKING SLIP					TOTAL					SHIPPER PER X				

+AE89412H RUN 503 Revision NO



Machining | Assembly | Metal Finishing

CMF, INC. - Metal Finishing Division  
2500 WEST ARGYLE ST.  
JACKSON, MI 49202  
United States of America

Ph: 517-990-0011  
Fax: 517-990-0257

### Pack List

Number: 142954

Date: 18-Aug-14

#### To

ADVANCE TURNING & MFG.  
4005 MORRIL RD  
JACKSON, MI 49201  
United States of America

#### Ship To

Steve Ganton  
ADVANCE TURNING  
4901 JAMES MCDIVITT RD.  
JACKSON, MI 49201  
United States of America

Ph: 517-783-2713

Fax: 517-783-4251

Ph: 517-783-6693

Fax: 517-783-4251

<b>Terms</b>		<b>Ship Via</b>	
Net 30 Days		CustomerPickUp	
<b>Quantity</b>	<b>Description</b>		
6 ea	Part: AE89412H Adapter Job: 3468-2 Anodize per ACES 1758P1 Red RUN# 503 Rev: PO: 307776 Line: 1		
Certificate of Compliance ISO 9001:2008 / AS9100:C Certified      NADCAP Certified: # 8903147182 Exp. Date: April 9, 2017      Exp. Date: July 31, 2015 Classic Metal Finishing certifies that all product meets requirements of the purchase agreement unless otherwise identified/notified and that all special processes were performed per the latest revision of the specification. Process:      Specification: Type II & Type III Anodize      MIL-A-8625F (ACES 1758-BD) Type II Passivation      AMS 2700E (ACES 16P50-DE, ASTM A 967-13) Type VII Passivation      AMS 2700E (ACES 16P51-DF, ASTM A 967-13) Chemical Conversion Coat      MIL-DTL-5541F (ACES 16P5-CP & 16P25-CC) Dry Film Lubrication      ACES 9 (BJ), ACES 2705P5 (AR) Mechanical Clean / Blast      ACES 16P4 (BU) and 16P10 (BV) Teflon Coat      ACES 1758 (BD) Classic Metal Finishing inspection meets or exceeds ANSI/ASQ Z1.4-2008 General Inspection Level II sampling requirements. Authorized by : Sam Absher, Sales Manager Form #75-11      Revision: Y (12/18/13)			

**AEROQUIP FLUID CONVEYANCE****Quality Assurance Procedure**

QAP 8.2J141

Page 1 of 1

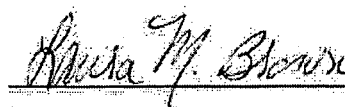
Revision: P

Eaton Aerospace, Conveyance Systems Division  
Jackson, Michigan

**Certificate of Compliance**CUSTOMER: Eaton Tijuana Customer Purchase Order: N/AWork Order I.D. Number 56363718 Quantity 6 Shipping Number HS337260Customer Part Number N/A Rev N/APart Number: AE89412H Rev NoneDescription: AdapterSerial #'s (if applicable): N/A

Eaton hereby certifies that the above parts have been processed in accordance with the following special process specifications and comply with all drawing requirements:

Check if Applicable	Special Processor if not Eaton	Process Name	Specification	Revision
N/A		Anodize	MIL-A8625 ACES 1758P1	
N/A		Passivate	ACES 16P50, ACES 16P51	
N/A		Brazing	ACES 14P1, 14P2, ACES 14P15	
N/A		Fusion Welding	SAE AMS-STD-2219 ACES 13P1, ACES 13P3	
N/A		Radiographic Inspection	ASTM E 1742, ACES 2602	
N/A		Fluorescent Penetrant Inspection	ASTM E 1417, ACES 2600	
N/A		Aluminum Heat Treat	ACES 15P17, ACES 15P1	
N/A		Steel Heat Treat	SAE AMS H 6875	
N/A		Bend	ACES 1145	
X		Chemical Conversion Coat	ACES 16P5, ACES 16P25, MIL-C-5541	
N/A		Phosphate Conversion Coat	ACES 16P21, AMS 2486	
N/A		Dry Film	ACES 9P1, 9P2, 9P3, 9P4, 9P7, 9P28, ACES 2705P5	
N/A		Teflon Coat	ACES 2705P6	
N/A		Anneal	ACES 15P59	

  
Laura M. Brown



9/29/14

Quality Lead Clerk

Printed Name

Title

Invoice HS335997	Purchase Order	Order	Quote	Customer	Output terminal
---------------------	----------------	-------	-------	----------	--------------------

## Invoice History

Invoice: HS335997	Invoice Date: 09/08/14	Required Date:
Sales Order: 42HP423	Order Date:	Due Date:
Purchase Order:		Quote:
Customer: C9707	Ship-To: C8580A	SAN DIEGO CA
Ship Via: FEDEX GROUND		Ship Date: 09/08/14
BOL: consol		

## Line Items

Ln	Item Number	Site	UM	Qty Ordered	Qty Invoiced	Due
1	AE71580H /	HPD	EA	0.0	6.0	09/08/14

Press space bar to continue.

## Sheet 1 of 1

1. Part Number +AE71580H	2. Part Name BODY	3. Serial Number-DateCode-Lot Number N/A	4. FAI Report Number +AE71580H.A.500
5. Part Revision Level A	6. Drawing Number AE71580H	7. Drawing revision level A	8. Additional Change-Unicorp, ECO's N/A
9. Manuf. Work Order or Receiver Number Run 500	10. Organization Name Advance Turning & Mfg., Inc. JAMES MCDIVITT	11. Supplier Code S012V	12. P.O. Number, Line Item & P.O. Revision HPS012VA-6
13. Detail FAI <input checked="" type="checkbox"/> Assembly FAI <input type="checkbox"/>	14. Full FAI <input checked="" type="checkbox"/> Partial FAI <input type="checkbox"/>	Baseline part number including revision	
Reason for FAI:		CHANGE IN MANUFACTURING FACILITY	

a) if above part number is a detail part only, go to Field 19  
b) if above part number is an assembly, go to the "INDEX" section below.

[illegible]

2) Also indicate is the FAI is complete per Section 5.4:		FAI complete	<input checked="" type="checkbox"/>	FAI not Complete	<input type="checkbox"/>
19. Signature	<i>Tammy Knox</i>			20. Date	9-20-11
21. Reviewed by	<i>David Mathis</i>			22. Date	9-21-11
23. Customer Approval	<i>Ernesto P. Sals</i>			24. Date	09/30/11

**Form 2: Product Accountability - Raw Material, Specification and Special Process (es).**

## Functional Testing

[illegible]

## Form 3: Characteristic Accountability, Verification and Compatibility Evaluation

1. Part Number +AE71580H				2. Part Name BODY			3. Serial Number N/A	4. FAI Report +AE71580H.A.500
Characteristic Accountability				Inspection / Test Results				
5. Char No.	6. Reference Location	7. Char Desig	8. Requirement	9. Results	10. Measurement Gages or Dedicated Tooling	11. Non-Conformance Number	14. Notes	
1			NOTE 1	COMPLIES	INFORMATION NOTED			
2			NOTE 2	COMPLIES	INFORMATION NOTED			
3			NOTE 3	COMPLIES	INFORMATION NOTED			
4			NOTE 4	COMPLIES	INFORMATION NOTED			
5			NOTE 5	COMPLIES	VISUAL			
6			NOTE 6	COMPLIES	INFORMATION NOTED			
7			NOTE 7	COMPLIES	INFORMATION NOTED			
8			NOTE 8	COMPLIES	INFORMATION NOTED			
9			NOTE 9	COMPLIES	INFORMATION NOTED			
10			45°	45°	MOLD			
11			.020R	.020R	COMPARATOR			
12			.010 X 45°	.011 X 45°	COMPARATOR			
13			.589±.002	.5894	DEPTH MICROMETERS			
14			.490 Ref.	.491	75-B1			
15			.4475±.0025	.4478	DEPTH MICROMETERS			
16			.230±.005	.2288	MOLD			
17			30°	30°	MOLD			
18			.591±.001	.591	PLUG GAGES			
19			.001 RUNOUT TO A	.0002	DIAL INDICATOR			
20			.6325±.0025	.632	PLUG GAGES			
21			.002 RUNOUT TO A	.0007	DIAL INDICATOR			
22			.692±.002	.691	PLUG GAGES			
23			.002 RUNOUT TO A	.0005	DIAL INDICATOR			
24			.750±.005	.754	DIAL SINKS			
25			.020R	.020	MOLD			
26			60°	60°	MOLD			
27			63 MICROFINISH	COMPLIES	VISUAL			

## Form 3: Characteristic Accountability, Verification and Compatibility Evaluation

1. Part Number +AE71580H				2. Part Name BODY			3. Serial Number N/A	4. FAI Report +AE71580H.A.500
Characteristic Accountability				Inspection / Test Results				
5. Char No.	6. Reference Location	7. Char Desig	8. Requirement	9. Results	10. Measurement Gages or Dedicated Tooling	11. Non-Conformance Number	14. Notes	
28			.502±.001	.501	PLUG GAGES			
29			.550±.005	.551	DIAL SINKS			
30			32 MICROFINISH	COMPLIES	VISUAL			
31			.604±.002	.6045	ID GROOVE GAGE			
32			.002 RUNOUT TO A	.0003	DIAL INDICATOR			
33			.8745±.0025	.872	MICROMETERS			
34			.8075±.0045	.8077	MICROMETERS			
35			.730±.005	.7305	MICROMETERS			
36			.7275±.0025	.7277	BLADE MICROMETERS			
37			30° ± 2°	30°	COMPARATOR			
38			.779±.003	.7771	BLADE MICROMETERS			
39			.863±.001	.8634	MICROMETERS			
40			.002 RUNOUT TO A	.0011	DIAL INDICATOR			
41			.0325±.0025	.032	COMPARATOR			
42			.015±.005	.0163	COMPARATOR			
43			.070±.002	.0714	75-B1			
44			.090±.005	.088	PLUG GAGES			
45			1.115±.005	1.113	HEIGHT STAND			
46			.330±.005	.333	HEIGHT STAND			
47			.3175±.0025	.3166	HEIGHT STAND			
48			.094±.005	.092	PLUG GAGES			
49			.150±.005	.150	COMPARATOR			
50			.030R	.030R	COMPARATOR			
51			45° ± 5°	45°	COMPARATOR			
52			.150±.005	.1497	COMPARATOR			
53			.8125-16 UN-3A	COMPLIES	THREAD RINGS			
54			.031R	.030R	COMPARATOR			
55			.188±.005	.189	PLUG GAGES			

## Form 3: Characteristic Accountability, Verification and Compatibility Evaluation

1. Part Number +AE71580H				2. Part Name BODY			3. Serial Number N/A	4. FAI Report +AE71580H.A.500
Characteristic Accountability				Inspection / Test Results				
5. Char No.	6. Reference Location	7. Char Deslg	8. Requirement	9. Results	10. Measurement Gages or Dedicated Tooling	11. Non-Conformance Number	14. Notes	
56			45° 8'	45°	COMPARATOR			
57			.0350 BASIC	.0350	MOLD			
58			2° 30' ± 2° 30'	2°	MOLD			
59			32 MICROFINISH	COMPLIES	VISUAL			
60			.099±.005	.0992	MOLD			
61			.0075±.0025	.0075	MOLD			
62			.010R	.010R	MOLD			
63			.0725±.0025	.073	75-B1			
64			.099±.005	.0987	MOLD			
65			.0220 BASIC	.0220	MOLD			
66			63 MICROFINISH	COMPLIES	VISUAL			
67			.002 RUNOUT TO B	.0008	DIAL INDICATOR			
68			.662±.002	.6626	ID GROOVE GAGE			
69			63 MICROFINISH	COMPLIES	VISUAL			
70			2° 30' ± 2° 30'	2°	MOLD			
71			.0075±.0025	.007R	MOLD			
72			.010R	.010R	MOLD			
73			SURFACE CONDITION	COMPLIES	VISUAL			
74			KEY CHARACTERISTICS	COMPLIES	VISUAL			
75			FINISH SPEC	LESS PASSIVATE	VISUAL			
76			FINISH	LESS PASSIVATE	VISUAL			
77			MATERIAL SPEC	SEE CERT	VISUAL			
78			MATERIAL	SEE CERT	VISUAL			
79			BLOCK TOLERANCE	COMPLIES	VISUAL			
12. Prepared By <i>Tammy Knox</i>							13. Date <i>9-20-11</i>	

**OUTO  
KUMPU****Certificate of Test**

HEAT 528573

ORDER 619533/ 11 BOL 0213162 \* CERTIFICATION \* 07/29/11

SHIP TO:  
COPPER AND BRASS SALES \*\*\*CONTPR\*\*  
8001 THYSSENKRUPP PARKWAYLot# **MFZP** Date **8-31-11 BDA**

NORTHWOOD

436190000

5400088561

YOUR ORDER & DATE  
7/29/11 CUST# 0316001 CUST TAG#SSRD01883

ITEM DESCRIPTION	
GRADE 17-4	Ship Condition H1075
Size 17-4 RND CFA H1075 1.0000 x 144.000 RL	
Country of Melt: SWEDEN	Country of Mfg.: UNITED STATES
	NAFTA Country of Origin is Country of Melt

No weld repair  
Free of mercury contamination, Free of radiation contamination  
No WEEE relevant substances; Meets EU electrical ROHS

Total Bundles 2 Total Weight 3358

WO 2022635 Bundles: 1A, 1B

SPECIFICATIONS	
MFG TO FINISHED BAR IN THE USA FROM BILLETS IMPORTED SWEDEN	
AMS 5643R Chemistry	ASTM A564 10 Type 630
UT MIL-STD-2154 Type 1 Cl A	Aged at 1075F 4hrs, Air Cool
AISI 630, UNS S17400	DFARS 252.225.7014 6/05
Bars are 100% UT inspected	Aeroquip 921M17 Rev AS
UNS S17400, AISI 630	

MECHANICAL & OTHER TESTS			
Hardness as shipped	327 HB		
Hardness as shipped	035 HRC		
Grain size	6.5	Tensile strength, KSI (MPa)	164.0 (1131)
Micro	OK	0.2% Yield Strngth, KSI (MPa)	159.0 (1096)
Intergranular corrosion			
Macro	OK	Elongation % in 4D	16.0
		Reduction of area %	61.0
		Charpy (ft lb)	73 93 77 Avg 81
		Lateral Exp (mils)	40 64 39 Avg 47

CHEMICAL COMPOSITION			
Carbon (C)	.010	Manganese (Mn)	.790
Phosphorus (P)	.022	Sulphur (S)	.026
Silicon (Si)	.420	Chromium (Cr)	15.380
Nickel (Ni)	4.760	Cobalt (Co)	.028
Copper (Cu)	3.230	Moly (Mo)	.110
Nitrogen (N)	.021	Columbium (Cb)	.240
Titanium (Ti)	.003	Aluminum (Al)	.003
Tin (Sn)	.005	Cerium (Ce)	.010
Boron (B)	.012	Tantalum (Ta)	.005
Vanadium (V)	.048		.000
Columbium/ Tantalum (Cb+Ta)	.250		
Iron (Fe)	Balance		
Frequency	.000	Severity	.000
Melt Practice	EAP		
Refining Practice	AOD		
De-long Ferrite			

Knowingly & willfully falsifying or concealing a material act on this form, or making false, fictitious or fraudulent statements or representations herein could constitute a felony punishable under federal statutes. We hereby certify that the test results shown in this report are correct and accurate as contained in the records of the company and are in compliance with the specifications, codes, and standards listed above.

M.F. Marcanio, Quality Manager

*M.F. Marcanio*

+AE71580H RUN 505 Revision A



Eaton Corporation  
East Avenue Plant  
300 S. East Ave  
Jackson  
49203

MI  
USA

AEHOSE

## Certificate of Conformance

PO - Line HPS012VA 006

Part +AE71580H

Revision A

Run 505

Qty 6

MfgLot 00045208S138V

Lot	Type	Spec	Raw Material	Heat	Vendor
Part		Run	SpecR		PO - Line
MRHA 17-4 COND A AMS 5643 1.000 RD +AE71580H		505	AS	G21147	COPPER AND BRASS SALES 307620 40

### Material Vendor Addresses

COPPER AND BRASS SALES INC  
22355 West 11 Mile Road

Southfield MI 19170-8221 USA

### Certifying Statement:

We do hereby certify the above part was manufactured in accordance with the engineering drawings and/or specifications on said purchase order.

Test reports are on file and subject to examination and indicate conformance to specified requirements. Copies of the test reports are available upon request.

Results of tests included in such certifications are based on standard practices.

Thread conformance inspected per Advance Turning internal sampling plan.

Part sampling pulled meets or exceeds ANSI/ASQ Z1.4-2008 sampling.

Where applicable, products are produced from materials that contain no RoHS restricted substances per the directive 2011/65/EU and/or DFARS 252.225-7014(Alt#1).

Certified By: Mike\_Kozioł

Quality Technician

8/27/2014

**outokumpu**  
stainless steel & high performance alloys

# Certificate of Test

Page: 1

HEAT G21147

ORDER 647869/ 03 BOL 0227466 \* CERTIFICATION \* 05/16/14

SHIP TO:  
COPPER AND BRASS SALES  
8001 THYSSENKRUPP PARKWAY

Lot# **MRHA** Date **7-31-14** BDA

NORTHWOOD

436190000

5400210107

YOUR ORDER & DATE  
5/16/14 CUST# 0316001 CUST TAG#SSRD01883

ITEM DESCRIPTION  
GRADE 17-4 Ship Condition H1075  
Size 17-4 RND CFA H1075 1.0000 x 144.000 RL  
Country of Melt: UNITED STATES Country of Mfg.: UNITED STATES  
NAFTA Country of Origin is Country of Melt  
No weld repair  
Free of mercury contamination, Free of radiation contamination  
No WEEE relevant substances; Meets EU electrical ROHS

Total Bundles 2 Total Weight 3313 Approx. Hot Red. Ratio 335:1

WO 2049864 Bundles: 1A, 1B

SPECIFICATIONS  
THE PRODUCTS LISTED ON THIS MILL TEST REPORT SATISFY PREFERENCE CRITERION B AS DEFINED IN ARTICLE 401 OF THE NORTH AMERICAN FREE TRADE AGREEMENT.  
AMS 5643T Chemistry ASTM A564 13 Type 630  
Aged at 1075F 4hrs, Air Cool AISI 630, UNS S17400  
DFARS 252.225.7009 10/4/11 Bars are 100% UT inspected  
Aeroquip 921M17 Rev AS ASTM F899 12  
UNS S17400, AISI 630

MECHANICAL & OTHER TESTS  
Hardness as shipped 353 HB  
Hardness as shipped 038 HRC  
Grain size 8.0 Tensile strength, KSI (MPa) 176.0 (1214)  
Micro OK 0.2% Yield Strength, KSI (MPa) 168.0 (1158)  
Intergranular corrosion OK  
Macro OK  
Elongation % in 4D 15.0  
Reduction of area % 55.0  
Charpy (ft lb) 46 48 57 Avg 50  
Charpy Test Temperature RT  
Lateral Exp (mils) 17 21 24 Avg 20  
Ferrite 1.0

CHEMICAL COMPOSITION  
Carbon (C) .026 Manganese (Mn) .870  
Phosphorus (P) .022 Sulphur (S) .026  
Silicon (Si) .300 Chromium (Cr) 15.430  
Nickel (Ni) 4.260 Cobalt (Co) .100  
Copper (Cu) 3.690 Moly (Mo) .390  
Nitrogen (N) .032 Columbium (Cb) .260  
Titanium (Ti) .010 Aluminum (Al) .010  
Tin (Sn) .009 Boron (B) .002  
Tantalum (Ta) .010 Vanadium (V) .090  
Tungsten (W) .090  
Columbium/ Tantalum (Cb+Ta) .270  
Iron (Fe) Balance  
Frequency .000 Severity .000  
Melt Practice EAF  
Refining Practice AOD  
De-long Ferrite

Knowingly & willfully falsifying or concealing a material act on this form, or making false, fictitious or fraudulent statements or representations herein could constitute a felony punishable under federal statutes. We hereby certify that the test results shown in this report are correct and accurate as contained in the records of the company and are in compliance with the specifications, codes, and standards listed above.

Outokumpu Stainless Bar, LLC  
3043 Crenshaw Pkwy  
Richburg, SC 29729

M.F. Marcanio, Quality Manager



From: ThyssenKrupp Materials NA

Cust. ADVANCE TURNING MFG INC

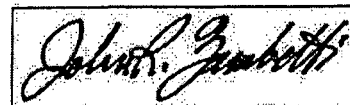
Del.: 2403300994

CstAr

CstOr 307620 MRHA

Wgt.: 627.899 LB

Date 07/31/2014





**AEROQUIP FLUID CONVEYANCE**  
**Quality Assurance Procedure**

QAP 8.2J141  
Page 1 of 1  
Revision: P

Eaton Aerospace, Conveyance Systems Division  
Jackson, Michigan

**Certificate of Compliance**

CUSTOMER: Eaton Tijuana Customer Purchase Order: N/A

Work Order I.D. Number 56372091 Quantity 6 Shipping Number HS335997

Customer Part Number N/A Rev N/A

Part Number: AE71580H Rev A

Description: Body

Serial #'s (if applicable): N/A

Eaton hereby certifies that the above parts have been processed in accordance with the following special process specifications and comply with all drawing requirements:

Check if Applicable	Special Processor if not Eaton	Process Name	Specification	Revision
N/A		Anodize	MIL-A8625 ACES 1758P1	
X		Passivate	ACES 16P50, ACES 16P51	
N/A		Brazing	ACES 14P1, 14P2, ACES 14P15	
N/A		Fusion Welding	SAE AMS-STD-2219 ACES 13P1, ACES 13P3	
N/A		Radiographic Inspection	ASTM E 1742, ACES 2602	
N/A		Fluorescent Penetrant Inspection	ASTM E 1417, ACES 2600	
N/A		Aluminum Heat Treat	ACES 15P17, ACES 15P1	
N/A		Steel Heat Treat	SAE AMS H 6875	
N/A		Bend	ACES 1145	
N/A		Chemical Conversion Coat	ACES 16P5, ACES 16P25, MIL-C-5541	
N/A		Phosphate Conversion Coat	ACES 16P21, AMS 2486	
N/A		Dry Film	ACES 9P1, 9P2, 9P3, 9P4, 9P7, 9P28, ACES 2705P5	
N/A		Teflon Coat	ACES 2705P6	
N/A		Anneal	ACES 15P59	

*Laura M. Brown*



9/29/14

Laura M. Brown

Quality Lead Clerk

Printed Name

Title

+AE71580H RUN 505 Revision A

**ThyssenKrupp Materials NA**  
One Source Group  
Copper and Brass Sales



ThyssenKrupp Materials NA 22355 West 11 Mile Road Southfield MI 48033

## DELIVERY NOTE

ADVANCE TURNING MFG INC  
4901 JAMES MCDEVITT ST  
JACKSON MI 49201-8999



DATE:	08/01/2014
DOC. NO:	2403300994*
BOL. NO:	2403300994
ORDER NO:	1402043984
YOUR P/O:	307620 MRHA
CUSTOMER NO:	10024154
Route:	M3JO2
CONTACT:	Whitney Lebo
TEL:	248-233-5776 ext 35776
FAX:	
EMAIL:	Whitney.Lebo@thyssenkrupp.co m

RCVG HOURS: 7:00AM TO 3PM MON-FRIDAY  
UNLOAD SIDE: Y  
MAX BUNDLE WT: 2000

### MUST BE DELIVERED BY 7/31/14

Deliveries are carried out for your account and risk acc. to our Gen. Terms & Cond. of Delivery and Payment.

ITEM	DESCRIPTION	NET QTY1 / QTY2	PACKAGE NO.
0010	SSRD01883 T-17-4 Stainless Steel H1075 Cold Finished Round UT 1.0000 " (+ -.0025) X 144 RBW Cutting - Standard Cut In Third Actual Chemistry/Act. Physical Standard Packaging <b>48" MAX LENGTHS</b> <b>DO NOT MIX HEAT LOTS.</b> <b>IF YOU MUST SHIP DIFFERENT HEAT LOTS,</b> <b>MATERIAL MUST BE KEPT SEPARATE AND</b> <b>IDENTIFIEDDO NOT MIX HEAT LOTS.</b> <b>IF YOU MUST SHIP DIFFERENT HEAT LOTS,</b> <b>MATERIAL MUST BE KEPT SEPARATE AND</b> <b>IDENTIFIED</b>	238.750 Feet 627.899 lb	1004499612
TAGNUMBER QUANTITY UOMVENDOR VENDORPO HEAT/LOT PCS			
1004402840 239 FT OUTOKUMPU 5400210107 G21147			
ROHS COMPLIANT;ASTM A 564/A 564M 2010			

Total Gross Weight

667.899 lb

All items, not declared as partial delivery, are final quantities.

Delivery Terms: PPD gem. Incoterms 2000 Prepaid

#### CERTIFICATION OF COMPLIANCE

We hereby certify that mercury or any of its compounds are not used in the processing and distribution of our products. The products we distribute are not hazardous in their received state.

For MSDS sheets go to [www.copperandbrass.com](http://www.copperandbrass.com). We hereby certify that the material above complies with the above specifications

John R Zambetti - Director of Quality Assurance

Copper and Brass Sales  
22355 W 11 Mile Road  
Southfield, MI 48033

Invoice	Purchase Order	Order	Quote	Customer	Output terminal
HS337276					

## Invoice History

Invoice: HS337276 Invoice Date: 09/10/14 Required Date:  
Sales Order: 42HP589 Order Date: Due Date:  
Purchase Order: Quote:  
Customer: C9707 Ship-To: C8580A SAN DIEGO CA  
Ship Via: FEDEX GROUND Ship Date: 09/10/14  
BOL: CONSOL

## Line Items

Ln	Item Number	Site	UM	Qty Ordered	Qty Invoiced	Due
1	AE83384G	HPD	EA	0.0	6.0	09/10/14

Press space bar to continue.

Parent Item/BOM Code: AE89347H

Description: COUPLING HALF

Level	Component Item	Description	Qty	Per	UM	Ph	T	Iss	P/M	Supp	Article Number	Cum LT	LT	Rev	Comment
1	22566-115	PACKING CDF00033-CPL	1.0	EA					P	S2429		14	14	AK	
1	22566-15	PACKING CDF00037-CPL	1.0	EA					P	S2429		14	14	AK	
1	22744-135	SPRING -CPL	1.0	EA					P	S9682		63	63	F	
2	+22744-135	SPRING -CPL	1.0	EA			D	no	X	HPDNONE		365	0	F	
1	900803-1-10C	WIRE -CPL	1.0	EA					P	S5154		28	28	A	
1	AE24859-014	PACKING -CPL	1.0	EA					P	S2429		56	56	D	
1	AE71580H	BODY -CPL	1.0	EA					M	MFPASP50		7	21	A	
2	+AE71580H	BODY -CPL	1.0	EA					P	S012V		14	14	A	
1	AE82926G	GUIDE CMF0049-CPL	1.0	EA					P	S0267		28	28		
2	+AE82926G	GUIDE -CPL	1.0	EA			D	no	X	HPDNONE		365	0		
3	2024R-5/8	BAR STOCK -CPL	0.0174	EA			D		P	HPD		365	365		
1	AE83384G	VALVE -CPL	1.0	EA					M	S474V		28	49	NO	
2	AE99349G	UNBONDED VALVE -CPL	1.0	EA					P	S0267		21	21	A	
3	2024R-1/2	BAR STOCK -CPL	0.031	EA			D		P	HPD		365	365		
1	AE89412H	ADAPTER -CPL	1.0	EA					M	METFIN		11	25		
2	+AE89412H	ADAPTER -CPL	1.0	EA					P	S012V		14	14	NONE	
3	2024R-2-1/4	BAR STOCK -CPL	0.7445	EA			D		P	HPD		365	365		
1	AE99352G	BODY CMF0862-CPL	1.0	EA					P	S8847		21	21	B	
2	+AE99352G	BODY CVMC0100-CPL	1.0	EA			D	no	X	HPDNONE		365	0	B	
3	2024R-15/16	BAR STOCK -CPL	0.0776	EA			D		P	HPD		365	365		

End of Report

## Page 1 of 1

AS/EN/SJAC 9102 Rev A First Article Inspection

Page 1 of 1

Form 2: Product Accountability - Raw Material, Specifications and Special Process(s)

1. Part Number: AE99349G	2. Part Name: Valve	3. Serial Number: N/A	4. FAI Report Number: 112630S0267
5. Material or Process Name	6. Specification Number	7. Code	8. Special Process Supplier Code
Round 2024 1/2 Barstock	AMS 4120	N/A	KAISER Tennalum 309 Industrial Drive Jackson, TN 38301
			9. Customer Approval Verification (Yes/No/N/A)
			10. Certificate of Conformance number
			Yes
			10038093

11. Functional Test Procedure Number	12. Acceptance report number, if applicable
N/A	N/A

13. Comments	15. Date 01/29/2013
14. Prepared By Brian Horsch 	

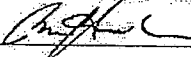
## Form 3: Characteristic Accountability, Verification and Compatibility Evaluation

1. Part Number: AE99349G				2. Part Name: Valve			3. Serial Number: N/A	4. FAI Report: 112630S0267
Characteristic Accountability				Inspection / Test Results				
5. Char No.	6. Reference Location	7. Characteristic Designator	8. Requirement	9. Results	10. Designed Tooling	11. Non-Conformance Number	14. Gage# Cal Due Gage Type	
1	N/A	N/A	NOTE: (1)	INFO NOTED	N/A	N/A	N/A	
2	N/A	N/A	NOTE: (2)	INFO NOTED	N/A	N/A	N/A	
3	N/A	N/A	.022 +/- .005 x [.0706] BASIC	.022 x .0706 BASIC	N/A	N/A	N/A	
4	N/A	N/A	30* +/- 30'	30*	N/A	N/A	N/A	
5	N/A	N/A	.200 REF.	.196	N/A	N/A	N/A	
6	N/A	N/A	R .020 +/- .005 TYP(2)	.020 R x 2	N/A	N/A	N/A	
7	N/A	N/A	R .015 +/- .005 TYP(2)	.010 R x 2	N/A	N/A	N/A	
8	N/A	N/A	.245 +/- .005	.247	N/A	N/A	N/A	
9	N/A	N/A	10* +/- 30'	10*	N/A	N/A	N/A	
10	N/A	N/A	.180 +/- .005	.178	N/A	N/A	N/A	
11	N/A	N/A	R .020 MAX.	.010 R	N/A	N/A	N/A	
12	N/A	N/A	45* +/- 30'	45*	N/A	N/A	N/A	
13	N/A	N/A	.155 +/- .005 x [.2500] BASIC	.154 x .2500 BASIC	N/A	N/A	N/A	
14	N/A	N/A	.500 +/- .010	.496	N/A	N/A	N/A	
15	N/A	N/A	.125 +/- .005	.127	N/A	N/A	N/A	
16	N/A	N/A	.050 +/- .005 x [.4125] BASIC	.052 x .4125 BASIC	N/A	N/A	N/A	
17	N/A	N/A	35* +/- 30'	35*	N/A	N/A	N/A	
18	N/A	N/A	.102 - .106	.105	N/A	N/A	N/A	
19	N/A	N/A	30* +/- 2*	30*	N/A	N/A	N/A	
20	N/A	N/A	.355 +/- .005	.3565	N/A	N/A	N/A	
21	N/A	N/A	.07 +/- .02	.065	N/A	N/A	N/A	
22	N/A	N/A	1.245 +/- .005	1.247	N/A	N/A	N/A	
23	N/A	N/A	.885 +/- .005	.8865	N/A	N/A	N/A	
24	N/A	N/A	.805 +/- .005	.804	N/A	N/A	N/A	
25	N/A	N/A	.089 +/- .005 x [.3620] BASIC	.089 x .3620 BASIC	N/A	N/A	N/A	
26	N/A	N/A	.070 +/- .005	.069	N/A	N/A	N/A	
27	N/A	N/A	.080 +/- .005	.0795	N/A	N/A	N/A	
28	N/A	N/A	30* +/- 30'	30*	N/A	N/A	N/A	
29	N/A	N/A	.125 +/- .005	.126	N/A	N/A	N/A	

## Form 3: Characteristic Accountability, Verification and Compatibility Evaluation

Characteristic Accountability				Inspection / Test Results			
5. Char No.	6. Reference Location	7. Characteristic Designator	8. Requirement	9. Results	10. Designed Tooling	11. Non-Conformance Number	14. Gage# Cal Due Gage Type
30	N/A	N/A	REVISION	A	N/A	N/A	N/A
31	N/A	N/A	2024-T351 AL / AMS 4119	#2024 0.500 R	N/A	N/A	N/A
32	N/A	N/A	BLOCK TOLERANCES	CONFORMS	N/A	N/A	N/A
33	N/A	N/A	.045 +/- .005	.046	N/A	N/A	N/A

The signature indicates that all characteristics are accounted for; meet drawing requirements or are properly documented for disposition.

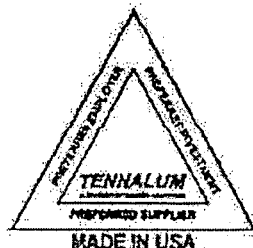
12. Prepared By: Brian Horsch 

13. Date: 01/29/2013

# KAISER ALUMINUM

FABRICATED PRODUCTS

Tennalum  
309 Industrial Drive  
Jackson, TN 38301  
731-423-2811



## CERTIFIED TEST REPORT

<http://Online.KaiserAluminum.com>

R 815120

CUSTOMER PO NUMBER: P463302423-2		CUSTOMER PART NUMBER: 525104		PRODUCT DESCRIPTION: Cold Finished Round	
KAISER ORDER NUMBER: 682267	LINE ITEM: 2	SHIP DATE: 09/24/2012	ALLOY: 2024	TEMPER: T351	
WEIGHT SHIPPED: 2030 lbs.	QUANTITY: 708 pcs.	PL NUMBER: 34495	DIAMETER/THICKNESS: 0.500 in.	WIDTH: 0.000 in.	LENGTH: 144.0 in.
SHIP TO:  EMJ 1900 Mitchell Blvd Schaumburg, IL 60193 USA		PS47		SOLD TO:  EMJ 1900 Mitchell Blvd Schaumburg, IL 60193 USA	

Test Code: 1000 AC

### Actual Physical Properties

Lot Number	LONG. UTS ksi	LONG. YTS ksi	LONG. ELONG. %
10038093	65.5	49.0	20.0
	66.3	49.9	22.0
	66.2	49.3	22.0
	67.5	50.2	23.0

### Chemical Composition, WT. % (Aluminum Remainder)

	Si	Fe	Cu	Mn	Mg	Cr	Zn	Ti	OTHERS EACH	OTHERS TOTAL	Lot
Actual	0.10	0.20	4.5	0.74	1.3	0.02	0.12	0.02			10038093
Max	0.50	0.50	4.9	0.9	1.8	0.10	0.25	0.15	0.05	0.15	
Min			3.8	0.30	1.2						

### Specifications

Standard: ISO 9001, ASTM B211-12, AMS 4120R, AMS-00-A-225/6A

### CERTIFICATION

Kaiser Aluminum Fabricated Products, LLC ("Kaiser") hereby certifies that the metal shipped under this order has been inspected and tested and found in conformance with the applicable specifications forming a part of the description set forth in Kaiser's sales acknowledgment form. Any warranty is limited to that shown on Kaiser's general terms and conditions of sale. Test reports are on file, subject to examination.

John Rennkamp, Quality Manager

*John Rennkamp*

Plant Serial: 178335

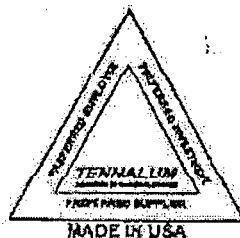
Kaiser Order Number: 682267

Line Item: 2

# KAISER ALUMINUM

FABRICATED PRODUCTS

Tenhalum  
309 Industrial Drive  
Jackson, TN 38301  
731-423-2811



## CERTIFIED TEST REPORT

<http://Online.KaiserAluminum.com>

### Miscellaneous Notes

#### Made in USA

This material was melted and manufactured in the USA. Mercury is not a normal contaminant in aluminum alloys. Neither mercury nor any of its compounds were utilized by Kaiser Aluminum in the manufacture of this material. The recording of false, fictitious or fraudulent statements or entries on the certificate may be punished as a felony under federal law.

This material meets the requirements of T4 temper and of QQ-A-225/6R Amendment 1 (CANCELLED). Material is RoHS compliant.

### CERTIFICATION

Kaiser Aluminum Fabricated Products, LLC ("Kaiser") hereby certifies that the metal shipped under this order has been inspected and tested and found in conformance with the applicable specifications forming a part of the description set forth in Kaiser's sales acknowledgment form. Any warranty is limited to that shown on Kaiser's general terms and conditions of sale. Test reports are on file, subject to examination.

John Rennekamp, Quality Manager

Plant Serial: 178335

Kaiser Order Number: 682267

Line Item: 2



# CERTIFICATE OF TEST

Page 01 of 02

Certification Date  
19-NOV-2012

**CUSTOMER ORDER NUMBER**

85931

EARLE M. JORGENSEN COMPANY

1900 MITCHELL BLVD.

SCHAUMBURG IL 60193

Invoice Number

S877917

**CUSTOMER PART NUMBER**

PS47

**SOLD TO:** AERTECH MACHINING & MFG, INC.

2903 W MICHIGAN AVE  
JACKSON MI 49202

**SHIP TO:**

AERTECH MACHINING & MFG, INC.

2903 W MICHIGAN AVE  
JACKSON MI 49202

Description: 2024-T351 CF BAR AMS QQ A 225/6, QQ A 225/6  
1/2 RD X 12' Line Total: 14 LB  
HEAT: 10038093 ITEM: 525104

**Specifications:**

QQ A 225/6 E\*

ASTM B211 12

AMS 4120 R

AMS QQ A 225/6 A

\*AMD 1 CANCELLED

MEETS T4 TEMPER

**ALUMINIUM CHEMICAL ANALYSIS**

**DESCRIPTION:**

	SI	FE	CU	MN	MG	CR	ZN	TI
MIN			3.8	0.3	1.2			
MAX	0.5	0.5	4.9	0.9	1.8	0.1	0.25	0.15

OTHERS : EACH TOTAL  
0.05 0.15 AL REMAINDER

RCPT: R815122

MILL : KAISER ALUMINUM

COUNTRY OF ORIGIN : USA

**MECHANICAL PROPERTIES**

DESCRIPTION	YLD STR KSI	ULT TEN KSI	%ELONG IN 02 IN	%RED IN AREA	HARDNESS
	49.0	65.5	20.0		
	49.9	66.3	22.0		

The above data were transcribed from the manufacturer's Certificate of Test after verification for compliance and specification requirements of the information on the certificate. All test results remain on file subject to examination.

We hereby certify that the material covered by this report will meet the applicable requirements described herein, including any specification forming a part of the description.

The willful recording of false, fictitious, or fraudulent statements in connection with test results may be punishable as a felony under federal statutes.

Material did not come in contact with mercury while in our possession.

CHUCK FREDA

*Charles E. Freda*  
MANAGER, QUALITY ASSURANCE

# CERTIFICATE OF TEST



Page 02 of 02

Certification Date  
19-NOV-2012

CUSTOMER ORDER NUMBER

85931

EARLE M. JORGENSEN COMPANY

1900 MITCHELL BLVD.

SCHAUMBURG IL 60193

Invoice Number

S877917

CUSTOMER PART NUMBER

PS47

SOLD TO: AERTECH MACHINING & MFG, INC. SHIP TO:

2903 W MICHIGAN AVE  
JACKSON MI 49202

AERTECH MACHINING & MFG, INC.

2903 W MICHIGAN AVE  
JACKSON MI 49202

Description: 2024-T351 CF BAR AMS QQ A 225/6, QQ A 225/6  
1/2 RD X 12' Line Total: 14 LB  
HEAT: 10038093 ITEM: 525104

MATERIAL IS FREE FROM MERCURY CONTAMINATION

## COMMENTS

melted & mfg in usa  
material is rohs compliant

The above data were transcribed from the manufacturer's Certificate of Test after verification for completeness and specification requirements of the information on the certificate. All test results remain on file subject to examination.

We hereby certify that the material covered by this report will meet the applicable requirements described herein, including any specification forming a part of the description.

The willful recording of false, fictitious, or fraudulent statements in connection with test results may be punishable as a felony under federal statutes.

Material did not come in contact with mercury while in our possession.

CHUCK FREDA

*Charles E. Freda*  
MANAGER, QUALITY ASSURANCE

## VENDOR CERTIFICATION OF QUALITY

Date: SEPTEMBER 04, 2014  
Purchase Order Number: DBF00645-56213126

Vendor: *Jackson Flexible Products*  
7765 Clinton Road  
Jackson, Michigan 49201  
517/787-8877

Part Name: VALVE

Part Number: AE83384G

Revision: NO

Compound: N981-60\*

Cure Date: 3Q14

Batch No.: 235

Quantities: 6

\* NITRILE PER ACES 825M6, TYPE I, CLASS 1

*I hereby certify that all material and work covered by this Purchase Order conforms to the specification, drawings, samples, or other description furnished or specified by Purchaser, or furnished by Seller and accepted by Purchaser; and, that such material and work are merchantable of good material and workmanship and free from defect, and are fit and sufficient for the purpose intended. It is understood that materials covered by this Purchase Order are subject to Purchaser's inspection and approval at destination, and subject to return in accordance with the terms, conditions, and consent of the vendor of this Purchase Order.*

Certified by *Ronald K. Jakubas* (Electronic Signature)  
Ronald K. Jakubas, P.E. General Manager



AERTECH MACHINING  
& MANUFACTURING, INC.

# CERTIFICATE OF CONFORMANCE

Company: <b>Aertech Machining &amp; Mfg.</b>					
Mailing address: <b>2903 W. Michigan Ave. Jackson, MI 49202</b>					
Eaton Location	<b>Jackson MI</b>	Part No.:	<b>AE99349G</b>	Rev:	<b>A</b>
Part Name:	<b>AE99349G</b>	P.O. No.	<b>HPS0267</b>		
Packing Slip No.:	<b>166504</b>	Date Shipped:	<b>08/06/2014</b>	No. of Pcs/Length:	<b>6</b>
Manufacturing Lot Number: <b>130456S0267</b>					
QMS Management Representative: <b>Daniel R. Shanks</b>					

Customer Specific Information:

Part Ordered Less the following:

Internal Processing Conforms to the following:

MATERIAL	SPECIFICATION	REV	EATON MATERIAL LOT OR MILL HEAT #
2024	AMS-QQ-A-225/6	A	10045148 10041418
SPECIAL PROCESSES	SPECIFICATION	REV	REMARKS (SP Accreditation No. & Exp. Date)
SUB-TIER SUPPLIER(s)	KEY PROCESSES	REMARKS	

The undersigned certifies that the part(s) and material identified above meet(s) all the requirements of the purchase agreement including the use of proper material and Eaton-approved special processes/processors. Certificates of all materials and special processing listed are attached. Appropriate records are retained. All appropriate materials are certified to DFAR 252.225-7009

Signature:	Adam Bauerly
Title :	Quality Representative
Date:	08/06/2014
Printed	08/05/2014

The undersigned certifies that the parts or items above were manufactured from materials and by processes free from mercury and/or radium contamination. (Complete if required by P.O.)

Signature:	Adam Bauerly
Title :	Quality Representative
Date:	08/06/2014
Printed	08/05/2014

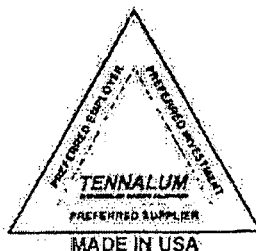
# KAISER

## ALUMINUM

### FABRICATED PRODUCTS

Tennalum  
309 Industrial Drive  
Jackson, TN 38301  
731-423-2811

UQ58



## CERTIFIED TEST REPORT

<http://Online.KaiserAluminum.com>

R227015

CUSTOMER PO NUMBER: P548191423-4		CUSTOMER PART NUMBER: 525104		PRODUCT DESCRIPTION: Cold Finished Round	
KAISER ORDER NUMBER: 692443	LINE ITEM: 4	SHIP DATE: 11/18/2013	ALLOY: 2024	TEMPER: T351	
WEIGHT SHIPPED: 3077 lbs.	QUANTITY: 1080 pcs.	B/L NUMBER: 36178	DIAM/DAFT/THKNS: 0.500 in.	WIDTH: 0.000 in.	LENGTH: 144.0 in.
SHIP TO:  EMJ 1900 Mitchell Blvd Schaumburg, IL 60193 USA			SOLD TO:  EMJ 1900 Mitchell Blvd Schaumburg, IL 60193 USA		

Test Code: 1000 AC

## Actual Physical Properties

Lot Number	LONG. UTS ksi	LONG. YTS ksi	LONG. ELONG. %
10045148	65.9	50.1	21.0
	65.8	51.3	19.0
	65.3	49.3	21.0
	68.7	53.7	21.0
	66.4	50.4	23.0

## Chemical Composition, WT. % (Aluminum Remainder)

	Si	Fe	Cu	Mn	Mg	Cr	Zn	Ti	OTHERS EACH	OTHERS TOTAL	Lot
Actual	0.06	0.17	4.4	0.73	1.3	0.01	0.17	0.02			10045148
Max	0.50	0.50	4.9	0.9	1.8	0.10	0.25	0.15	0.05	0.15	
Min			3.8	0.30	1.2						

## Specifications

Standard: ISO 9001, ASTM B211-12, AMS 4120R, AMS-QQ-A-225/6A

## CERTIFICATION

Kaiser Aluminum Fabricated Products, LLC ("Kaiser") hereby certifies that the metal shipped under this order has been inspected and tested and found in conformance with the applicable specifications forming a part of the description set forth in Kaiser's sales acknowledgement form. Any warranty is limited to that shown on Kaiser's general terms and conditions of sale. Test reports are on file, subject to examination.

John Rennekamp, Quality Manager

Plant Serial: 195861

Kaiser Order Number: 692443

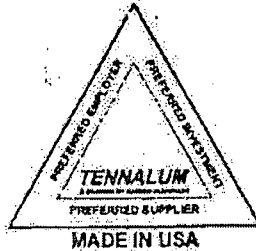
Line Item: 4

# **KAISER**

## **ALUMINUM**

### **FABRICATED PRODUCTS**

Tennalum  
309 Industrial Drive  
Jackson, TN 38301  
731-423-2811



## **CERTIFIED TEST REPORT**

<http://Online.KaiserAluminum.com>

### **Miscellaneous Notes**

Made in USA

This material was melted and manufactured in the USA. Mercury is not a normal contaminant in aluminum alloys. Neither mercury nor any of its compounds were utilized by Kaiser Aluminum in the manufacture of this material. AS9100C:2009 The recording of false, fictitious or fraudulent statements or entries on the certificate may be punished as a felony under federal law.

This material meets the requirements of T4 temper and of QQ-A-225/6E Amendment 1 (CANCELLED). This material is RoHS 2 compliant.

### **CERTIFICATION**

Kaiser Aluminum Fabricated Products, LLC ("Kaiser") hereby certifies that the metal shipped under this order has been inspected and tested and found in conformance with the applicable specifications forming a part of the description set forth in Kaiser's sales acknowledgement form. Any warranty is limited to that shown on Kaiser's general terms and conditions of sale. Test reports are on file, subject to examination.

John Rennekamp, Quality Manager

Page 2 of 2

Plant Serial: 195861  
Kaiser Order Number: 692443  
Line Item: 4

# CERTIFICATE OF TEST



Page 01 of 02

Certification Date  
27-MAY-2014

## CUSTOMER ORDER NUMBER

97328 L1

EARLE M. JORGENSEN COMPANY  
1900 MITCHELL BLVD.  
SCHAUMBURG IL 60193

## Invoice Number

S306243

## CUSTOMER PART NUMBER

SOLD TO: AERTECH MACHINING & MFG, INC. SHIP TO: AERTECH MACHINING & MFG, INC.  
2903 W MICHIGAN AVE 2903 W MICHIGAN AVE  
JACKSON MI 49202 JACKSON MI 49202

Description: 2024-T351 CP BAR AMS QQ A 225/6, QQ A 225/6  
1/2 RD X 12' Line Total: 14 LB  
HEAT: 10045148 ITEM: 525104

Specifications:  
QQ A 225/6 \* ASTM B211 12 AMS 4120 R  
AMS QQ A 225/6 A

## ALUMINIUM CHEMICAL ANALYSIS

## DESCRIPTION:

	SI	FE	CU	MN	MG	CR	ZN	TI
MIN			3.8	0.3	1.2			
MAX	0.5	0.5	4.9	0.9	1.8	0.1	0.25	0.15

OTHERS : EACH TOTAL  
0.05 0.15 AL REMAINDER

RCPT: R227015

VENDOR: KAISER ALUMINUM (F/F)

COUNTRY OF ORIGIN : USA

## MECHANICAL PROPERTIES

DESCRIPTION	YLD STR KSI	ULT TEN KSI	%ELONG IN 02 IN	%RED IN AREA	HARDNESS
	50.1	65.9	21.0		
	51.3	65.8	19.0		
	49.3	65.3	21.0		

The above data were transcribed from the manufacturer's Certificate of Test after verification for completeness and specification requirements of the information on the certificate. All test results remain on file subject to examination.

We hereby certify that the material covered by this report will meet the applicable requirements described herein, including any specification forming a part of the description.

The willful recording of false, fictitious, or fraudulent statements in connection with test results may be punishable as a felony under federal statutes.

Material did not come in contact with mercury while in our possession.

CHUCK FRED A

*Charles E. Freda*  
MANAGER, QUALITY ASSURANCE

# CERTIFICATE OF TEST



Page 02 of 02

Certification Date  
27-MAY-2014

**CUSTOMER ORDER NUMBER**

97328 L1

EARLE M. JORGENSEN COMPANY

1900 MITCHELL BLVD.

SCHAUMBURG IL 60193

Invoice Number

S306243

**CUSTOMER PART NUMBER**

**SOLD TO:**

AERTECH MACHINING & MFG, INC.

**SHIP TO:**

AERTECH MACHINING & MFG, INC.

2903 W MICHIGAN AVE

JACKSON MI 49202

2903 W MICHIGAN AVE

JACKSON MI 49202

Description: 2024-T351 CF BAR AMS QQ A 225/6, QQ A 225/6  
1/2 RD X 12' Line Total: 14 LB  
HEAT: 10045148 ITEM: 525104

MATERIAL IS FREE FROM MERCURY CONTAMINATION

**COMMENTS**

MELTED & MFG IN USA

The above data were transcribed from the manufacturer's Certificate of Test after verification for completeness and specification requirements of the information on the certificate. All test results remain on file subject to examination.

We hereby certify that the material covered by this report will meet the applicable requirements described herein, including any specification forming a part of the description.

The willful recording of false, fictitious, or fraudulent statements in connection with test results may be punishable as a felony under federal statutes.

Material did not come in contact with mercury while in our possession.

CHUCK FRED A

*Charles E. Freda*  
MANAGER, QUALITY ASSURANCE

FROM: EARLE M. JORGENSEN COMPANY  
1900 MITCHELL BLVD.  
SCHAUMBURG

S.I.D. ORDER NO. S306243  
ORDERED BY: LEE TAYLOR  
PHONE: 517 782-4644  
CUST. ORD. NO.: 97328 L1



AERTECH MACHINING & MFG. INC.

2903 W MICHIGAN AVE  
JACKSON

MI 49202

AERTECH MACHINING & MFG. INC.

2903 W MICHIGAN AVE  
JACKSON

MI 49202

FAX: 517 7828323

PAGE 1 OF 1

523-1

B244309

ORDER #

DATE ORD.	CUSTOMER P.O.	F.O.B.	DEL AREA	VIA	CUST. ACCT.	PROM. DATE
27-MAY-14	97328 L1		500-1	OUR TRUCK	271940	28-MAY-14
ORDER WGT.	HS 640	TERR.	TYPE	TAX RATE	PPD/COLL	C.O.D.
14	OTILIO ROMAN		S		PREPAID	2
						TEST REPORT
						B
						PRO #
						Y
						SHIP DATE
						28-MAY-14

\*\*\* NO OIL ON BARS ALLOWED  
\*\*\* NO OIL ON BARS ALLOWED  
\*\*\* MILL TEST REPORTS WITH SHIPMENT  
\*\*\* DO NOT STICK LABEL ON RAW MATERIAL

525104  
5 BARS

2024-T351 CF BAR AMS QQ A 225/6, QQ A 225/6  
1/2 RD X 12'

14.0000 LB

PT#

RED

JOB/BTCH#

W/FT 0.2360

EXT WGT:

97328 L1

14

PO LN#



11 sales subject to US Export Administration Regulations.

Please refer to <http://www.emjmetals.com/about/Terms.htm>

HEAT # 10045148

LOCATION:K-14252

1 BND 5 PC  
14 LB 500

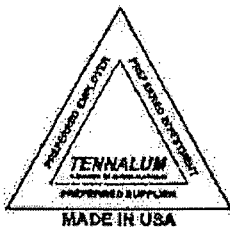
The primary document below is  
an official good order except as  
noted hereunder and contains all  
conditions, warranties, and  
limitations, which shall govern  
the relationship between the  
carrier and the shipper. The  
shipper agrees to indemnify the  
carrier for any loss or damage  
to the goods or to the carrier's  
property or to the property of  
third parties, arising out of or  
in connection with the  
transportation of the goods, and  
to hold the carrier harmless for  
any such loss or damage, and to  
pay the carrier's reasonable  
costs of defense and settlement  
of claims. The shipper agrees  
to pay the carrier's reasonable  
costs of storage and handling of  
the goods, and to pay the  
carrier's reasonable costs of  
insurance, if the shipper does  
not insure the goods. The  
shipper agrees to pay the  
carrier's reasonable costs of  
loading and unloading of the  
goods, and to pay the carrier's  
reasonable costs of securing the  
goods. The shipper agrees to  
pay the carrier's reasonable  
costs of any other services  
rendered by the carrier. The  
shipper agrees to pay the  
carrier's reasonable costs of  
any other expenses incurred by  
the carrier in connection with  
the transportation of the goods.  
The shipper agrees to pay the  
carrier's reasonable costs of  
any other expenses incurred by  
the carrier in connection with  
the transportation of the goods.  
The shipper agrees to pay the  
carrier's reasonable costs of  
any other expenses incurred by  
the carrier in connection with  
the transportation of the goods.

RECEIVED ABOVE GOODS IN TERMS AND CONDITIONS APPEARING ON BACK OF INVOICE				INVOICE AMT.		ADDITIONAL CHARGES		V.A.T. TAX		TAX/AMT.		TOTAL	
NO. OF PKGS.	PKG. TYPE	NO. OF PKGS.	PKG. TYPE	TOTAL PKGS.	DESCRIPTION OF ARTICLES	SHIP WGT.	CLS	FREIGHT CHARGES ARE TO BE PRE- PAID UNLESS THIS BLOCK IS CHECKED	Subject to Section 1 of conditions, if the shipment is to be delivered to the consignee without receipt by the carrier, the consignee shall sign the following statement: The carrier shall not make delivery of this shipment without payment of freight and all other charges. (Signature of Consignee)				C.O.D. AMOUNT
1	1				ALUMINUM BAR	13	14	060					
PACKING SLIP					TOTAL					14			
										SHIPPER <input checked="" type="checkbox"/> PER			
										CARRIER <input type="checkbox"/>			
										AGENT <input type="checkbox"/>			
										PER <input type="checkbox"/>			

# KAISER ALUMINUM FABRICATED PRODUCTS

Tennalum  
309 Industrial Drive  
Jackson, TN 38301  
731-423-2811

UX18



## CERTIFIED TEST REPORT

<http://Online.KaiserAluminum.com>

CUSTOMER PO NUMBER: 01088169-1		CUSTOMER PART NUMBER: 29709		PRODUCT DESCRIPTION: Cold Finished Round	
KAISER ORDER NUMBER: 687397	LINE ITEM: 1	SHIP DATE: 04/09/2013		ALLOY: 2024	TEMPER: T351
WEIGHT SHIPPED: 1007 lbs.	QUANTITY: 352 pcs.	S/L NUMBER: 35240		DIAM/OD/THKNS: 0.500 In.	WIDTH: 0.000 In.
SHP TO: The Trident Company 405 North Plano Road Richardson, TX 75080 USA		SOLD TO: The Trident Company PO Box 853900 Attn: Accounts Payable Richardson, TX 75085-3900 USA			

Test Code: 1000 AC

### Actual Physical Properties

Lot Number	LONG. UTS ksi	LONG. YTS ksi	LONG. ELONG. %
10041418	62.2	50.7	12.0
	64.1	50.4	11.0
	64.7	49.8	11.0
	67.2	51.8	16.0

### Chemical Composition, WT. % (Aluminum Remainder)

	Si	Fe	Cu	Mn	Mg	Cr	Zn	Ti	OTHERS EACH	OTHERS TOTAL	Lot
Actual	0.12	0.22	4.4	0.77	1.3	0.02	0.16	0.02			10041418
Max	0.50	0.50	4.9	0.9	1.8	0.10	0.25	0.15	0.05	0.15	
Min			3.8	0.30	1.2						

### Specifications

Standard: ISO 9001, ASTM B211-12, AMS 4120R, AMS-QQ-A-225/6A

### CERTIFICATION

Kaiser Aluminum Fabricated Products, LLC ("Kaiser") hereby certifies that the metal shipped under this order has been inspected and tested and found in conformance with the applicable specifications forming a part of the description set forth in Kaiser's sales acknowledgement form. Any warranty is limited to that shown on Kaiser's general terms and conditions of sale. Test reports are on file, subject to examination.

John Rennekamp, Quality Manager

*John Rennekamp*

RICHARDSON TRIDENT  
QUALITY ASSURANCE

8 Page 1 of 2

Plant Serial: 186553

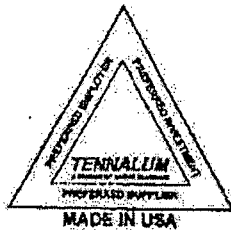
Kaiser Order Number: 687397

Line Item: 1

# **KAISER ALUMINUM**

**FABRICATED PRODUCTS**

Tennalum  
309 Industrial Drive  
Jackson, TN 38301  
731-423-2811



## **CERTIFIED TEST REPORT**

<http://Online.KaiserAluminum.com>

### **Miscellaneous Notes**

Made in USA

This material was melted and manufactured in the USA. Mercury is not a normal contaminant in aluminum alloys. Neither mercury nor any of its compounds were utilized by Kaiser Aluminum in the manufacture of this material. AS9100C:2009 The recording of false, fictitious or fraudulent statements or entries on the certificate may be punished as a felony under federal law.

This material meets the requirements of T4 temper and of QQ-A-225/6E Amendment 1 (CANCELLED). Material is RoHS compliant.

### **CERTIFICATION**

Kaiser Aluminum Fabricated Products, LLC ("Kaiser") hereby certifies that the metal shipped under this order has been inspected and tested and found in conformance with the applicable specifications forming a part of the description set forth in Kaiser's sales acknowledgement form. Any warranty is limited to that shown on Kaiser's general terms and conditions of sale. Test reports are on file, subject to examination.

John Rennekamp, Quality Manager

Plant Serial: 186553

Kaiser Order Number: 687397

Line Item: 1



# CERTIFICATE OF TEST

Page 01 of 01

Certification Date  
25-JUL-2014

**CUSTOMER ORDER NUMBER**

98557 L1

EARLE M. JORGENSEN COMPANY  
1900 MITCHELL BLVD.  
SCHAUMBURG IL 60193

Invoice Number  
S343257

**CUSTOMER PART NUMBER**

**SOLD TO:** AERTECH MACHINING & MFG, INC  
**SHIP TO:** AERTECH MACHINING & MFG, INC.  
2903 W MICHIGAN AVE  
JACKSON MI 49202

Description: 2024-T351 CF BAR AMS QQ A 225/6, QQ A 225/6  
1/2 RD X 12' Line Total: 14 LB  
HEAT: 10041418 ITEM: 525104

Specifications:  
QQ A 225/6 ASTM B211 12 AMS 4120 R  
AMS QQ A 225/6 A

## ALUMINIUM CHEMICAL ANALYSIS

**DESCRIPTION:**

	SI	FE	CU	MN	MG	CR	ZN	TI
MIN			3.8	0.3	1.2			
MAX	0.5	0.5	4.9	0.9	1.8	0.1	0.25	0.15

OTHERS : EACH TOTAL  
0.05 0.15 AL REMAINDER

RCPT: R335822  
VENDOR: TRIDENT CO

COUNTRY OF ORIGIN : USA

## MECHANICAL PROPERTIES

DESCRIPTION	YLD STR KSI	ULT TEN KSI	%ELONG IN 02 IN	%RED IN AREA	HARDNESS
	50.7	62.2	12.0		
	50.4	64.1	11.0		
	49.8	64.7	11.0		

The above data were transcribed from the manufacturer's Certificate of Test after verification for completeness and specification requirements of the information on the certificate. All test results remain on file subject to examination.

We hereby certify that the material covered by this report will meet the applicable requirements described herein, including any specification forming a part of the description.

The willful recording of false, fictitious, or fraudulent statements in connection with test results may be punishable as a felony under federal statutes.

Material did not come in contact with mercury while in our possession.

CHUCK FRED A

*Charles E. Freda*  
MANAGER, QUALITY ASSURANCE



**AEROQUIP FLUID CONVEYANCE****Quality Assurance Procedure**

QAP 8.2J141

Page 1 of 1


Revision: P

Eaton Aerospace, Conveyance Systems Division  
Jackson, Michigan

**Certificate of Compliance**CUSTOMER: Eaton Tijuana Customer Purchase Order: N/AWork Order I.D. Number 56213126 Quantity 6 Shipping Number HS337276Customer Part Number N/A Rev N/APart Number: AE83384G Rev ADescription: ValveSerial #'s (if applicable): N/A

Eaton hereby certifies that the above parts have been processed in accordance with the following special process specifications and comply with all drawing requirements:

Check if Applicable	Special Processor if not Eaton	Process Name	Specification	Revision
N/A		Anodize	MIL-A8625 ACES 1758P1	
N/A		Passivate	ACES 16P50, ACES 16P51	
N/A		Brazing	ACES 14P1, 14P2, ACES 14P15	
N/A		Fusion Welding	SAE AMS-STD-2219 ACES 13P1, ACES 13P3	
N/A		Radiographic Inspection	ASTM E 1742, ACES 2602	
N/A		Fluorescent Penetrant Inspection	ASTM E 1417, ACES 2600	
N/A		Aluminum Heat Treat	ACES 15P17, ACES 15P1	
N/A		Steel Heat Treat	SAE AMS H 6875	
N/A		Bend	ACES 1145	
X		Chemical Conversion Coat	ACES 16P5, ACES 16P25, MIL-C-5541	
N/A		Phosphate Conversion Coat	ACES 16P21, AMS 2486	
N/A		Dry Film	ACES 9P1, 9P2, 9P3, 9P4, 9P7, 9P28, ACES 2705P5	
N/A		Teflon Coat	ACES 2705P6	
N/A		Anneal	ACES 15P59	

  
40745

9/29/14

Laura M. BrownQuality Lead Clerk

Printed Name

Title



## Form Cut Industries Inc.

197 Mt. Pleasant Avenue, Newark, New Jersey 07104  
(973) 483-5154 • FAX (973) 483-4512  
E-mail: sales@formcut.com

CLASSIC METAL FINISHING  
2500 WEST ARGYLE ST.  
JACKSON, MI 48202

### CERTIFICATE OF COMPLIANCE

DATE 4/28/14  
P.O. NUMBER 3625-13  
PART NUMBER T900803-1-10C Rev. -  
QUANTITY 1,500  
PACKING LIST NO. 190218  
HEAT / MELT NO. M#528514

WE CERTIFY THAT ALL MATERIAL SHIPPED UNDER SUBJECT PURCHASE  
ORDER CONFORMS TO SPECIFICATIONS AS NOTED ON THE PURCHASE  
ORDER AND REFERENCED DOCUMENTS.

PHYSICAL, CHEMICAL AND/OR ELECTRICAL DATA COVERING THE  
MATERIAL AND/OR PROCESSES USED IN THE MANUFACTURE OF THESE  
PARTS IS ON FILE AND SUBJECT TO YOUR EXAMINATION.

FORM CUT INDUSTRIES, INC.

The Material Used To Fabricate  
Parts On This Order Complies  
With DFARS Clause 252.225-7008  
And 252.225-7009

  
KENNETH DE GRAAF  
SALES MANAGER

CLASSIC METAL FINISHING  
2500 WEST ARGYLE ST.  
JACKSON, MI 49202

Siri Wire  
90 Wauregan Road  
Danielson, CT 06239  
860-774-0607 Fax: 860-774-0573

## CERTIFICATE OF ANALYSIS

SOLD TO: Form Cut Industries  
197 Mt. Pleasant Avenue  
Newark, NJ 07104 USA

Purchase Order: 15578

Item#: 06830305SS

DATE SHIPPED: 08/31/11

### CHEMISTRY:

Hear No.	C	Mn	P	S	Si	Cr	Ni	Mn	Cu	Ni	Co	Al	W	V	Ti	Ch
528516	.007	.480	.024	.001	.3000	17.510	11.160	.120	.089	.024	.042	.003	.000	.000	.005	.000
	Pb	B	Nb	Sn	Ca	As	Ta	Nb								
	.000	.000	.000	.000	.000	.000	.000	.050								

### PHYSICALS:

GRADE  
305

SIZE  
.068

Tensile  
87,229 PSI

OTHER

LBS. SHIPPED  
485#

Elongation - 56% / Yield Strength - 48,000 PSI  
Country of Origin - Sweden  
Material is free from Mercury contamination.

DFARS COMPLIANT

AUTHORIZED SIGNATURE

DATE: 10/31/11

TITLE: General Manager

AMS5685J, ASTM 580 CONDITION A, ACES 921M57

The Material Used To Fabricate  
Parts On This Order Complies  
With DFARS (252 225-7008  
And 252 225-7009)



Machining | Assembly | Metal Finishing

CMF, INC. - Metal Finishing Division  
2500 WEST ARGYLE ST.  
JACKSON, MI 49202  
United States of America

Ph: 517-990-0011  
Fax: 517-990-0257

### Pack List

Number: 142725

Date: 13-Aug-14

#### To

Eaton Aerospace, East Avenue  
300 S. EAST AVENUE  
JACKSON, MI 49203  
United States of America

#### Ship To

Omer Tekin  
EATON AEROSPACE  
300 S. EAST AVENUE  
JACKSON, MI 49203  
United States of America

Ph: 517-789-2996

Ph: 517-789-2996

Terms		Ship Via	
1% 10 Net 30		CustomerPickUp	
Quantity	Description		
300 ea	Part: 900803-1-10C Dry Filmed Wire Job: 25463-4 MFG LOT : 25718	Rev: A PO: HPS5154 Line: 11	
<p>Certificate of Compliance</p> <p>ISO 9001:2008 / AS9100:C Certified      NADCAP Certified: # 8903147182 Exp. Date: April 9, 2017      Exp. Date: July 31, 2015</p> <p>Classic Metal Finishing certifies that all product meets requirements of the purchase agreement unless otherwise identified/notified and that all special processes were performed per the latest revision of the specification.</p> <p>Process:      Specification:</p> <p>Type II &amp; Type III Anodize      MIL-A-8625F (ACES 1758-BD) Type II Passivation      AMS 2700E (ACES 16P50-DE, ASTM A 967-13) Type VII Passivation      AMS 2700E (ACES 16P51-DF, ASTM A 967-13) Chemical Conversion Coat      MIL-DTL-5541F (ACES 16P5-CP &amp; 16P25-CC) Dry Film Lubrication      ACES 9 (BJ), ACES 2705P5 (AR) Mechanical Clean / Blast      ACES 16P4 (BU) and 16P10 (BV) Teflon Coat      ACES 1758 (BD)</p> <p>Classic Metal Finishing inspection meets or exceeds ANSI/ASQ Z1.4-2008 General Inspection Level II sampling requirements.</p> <p>Authorized by : Sam Absher, Sales Manager</p> <p>Form #75-11      Revision: Y (12/18/13)</p>			



Machining | Assembly | Metal Finishing

CMF, INC. - Metal Finishing Division  
2500 WEST ARGYLE ST.  
JACKSON, MI 49202  
United States of America

Ph: 517-990-0011  
Fax: 517-990-0257

### Pack List

Number: 142006

Date: 05-Aug-14

To

EATON INDUSTRIES MFG GMBH  
C/O BROKERAGE & LOGISTICS  
1659 GAILES BLVD  
SAN DIEGO, CA 92154  
United States of America

Ship To

Cinthya Hernandez  
EATON INDUSTRIES MFG GMBH  
C/O BROKERAGE & LOGISTICS  
1659 GAILES BLVD  
SAN DIEGO, CA 92154  
United States of America

Ph: 619-671-0276

Fax: 619-671-0277

Ph: 619-671-0276

Fax: 619-671-0277

#### Terms

Net 60 Days

#### Ship Via

UPS Ovrn/Cust

#### Quantity

#### Description

100  
ea

Part: 900803-1-10C  
Dry Filmed Wire.  
Job: 25554-7  
LOT 25718

Rev: A

PO: 42SCMF

Line: 9

#### Certificate of Compliance

ISO 9001:2008 / AS9100:C Certified  
Exp. Date: April 9, 2017

NADCAP Certified: # 8903147182  
Exp. Date: July 31, 2015

Classic Metal Finishing certifies that all product meets requirements of the purchase agreement unless otherwise identified/notified and that all special processes were performed per the latest revision of the specification.

#### Process:

#### Specification:

Type II & Type III Anodize	MIL-A-8625F (ACES 1758-BD)
Type II Passivation	AMS 2700E (ACES 16P50-DE, ASTM A 967-13)
Type VII Passivation	AMS 2700E (ACES 16P51-DF, ASTM A 967-13)
Chemical Conversion Coat	MIL-DTL-5541F (ACES 16P5-CP & 16P25-CC)
Dry Film Lubrication	ACES 9 (BJ), ACES 2705P5 (AR)
Mechanical Clean / Blast	ACES 16P4 (BU) and 16P10 (BV)
Teflon Coat	ACES 1758 (BD)

Classic Metal Finishing inspection meets or exceeds ANSI/ASQ Z1.4-2008 General Inspection Level II sampling requirements.

Authorized by: Sam Absher, Sales Manager

Form #75-11

Revision: Y (12/18/13)

Authorized Signature:

*Sam E. Absher*

EATON AEROSPACE

**INSPECTION REQUIRED** POR

DESC:  
PACKING

CDF00037

ITEM: 22566-15

REVISION:

AK

LOT: E736425

RCV'D: 03/14/2012

EXPIRE:

USER ID:

WORK ORD ID:

SUPPLIER: 42001426

E3026486

PO/WO: 42SDEPAT

QTY:

100

RECEIVER: E736425

POINT OF USE:

05A02018

DELIVER TO: REGINS

CURE DATE:

4011

INSPECTOR SIGNATURE:

INSPECTION STAMP:

*J. H. H. H.*



**Depatie** FLUID POWER COMPANY  
HOSE AND AUTOMATION PRODUCTS

**KALAMAZOO**  
6256 American Avenue  
Portage, MI 49002  
Phone: 269-324-2850  
Fax: 269-324-2870

**HOLLAND**  
2298 112<sup>th</sup> Avenue  
Holland, MI 49424  
Phone: 616-748-4673  
Fax: 616-748-4674

## CONFORMANCE CERTIFICATE FOR MATERIAL SHIPPED

[www.depatie.com](http://www.depatie.com)

Depatie Fluid Power Co., hereby certifies that all materials used in the manufacture of parts required on purchase order 22566-15 Rev AK received from Eaton Aerospace conform to the material specifications indicated on drawings or in specifications indicated on the said purchase order. Test reports are on file with us or with International Seal Company for examination and indicate conformance with applicable specification requirements.

Depatie Fluid Power Co. also certifies that the parts listed below and shipped on March 12, 2012 are manufactured in accordance with material specifications called for on the purchase order, are current on the date on which the order was accepted.

Depatie Fluid Power Co., also certifies that the parts were manufactured by International Seal Company

CUSTOMER PART NO. 22566-15 Rev AK

QUANTITY 100

VENDOR PART NO. M83248/1-015

CURE DATE 2Q11

SPECIFICATION MIL-R83248

BATCH NO. KKAV46

COMPOUND V75

DEPATIE FLUID POWER COMPANY

Nancy Whitcomb  
Nancy Whitcomb

Hose and Automation Products

Portage MI 49002

MARK  
NO.

S  
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T

EATON INDUSTRIES MFG GMBH  
8580 AVENIDA DE LA FUENTE  
SUITE C -3004  
SAN DIEGO CA 92154

MARK NO. 42SDEPAT LINE 69

S  
H  
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P  
T  
O

EATON INDUSTRIES MFG GMBH  
C/O BROKERAGE & LOGISTICS  
1659 GAILES BLVD  
SAN DIEGO CA 92154

ORDER DATE  
03/09/12

SALES ORDER NO.  
562051-001

PAGE  
1

WRITTEN  
NCW

ORIGIN  
01

SHIPMENT FROM OUR Portage

WAREHOUSE

[illegible]

QUESTIONS ABOUT YOUR ORDER? CALL 269-324-2850

We hereby certify that these goods were produced in compliance with all applicable requirements of Section 6, 7, and 12 of the Fair Labor Standards Act, as amended, and of regulations and orders of the United States Department of Labor issued under Section 14 thereof.

THE PRODUCTS LISTED ABOVE MEET THE REQUIREMENTS AND SPECIFICATIONS OF THE STANDARDS UNDER THE OCCUPATIONAL SAFETY AND HEALTH ACT OF 1970.

## PACKING LIST

## Hose and Automation Products

Portage MI 49002

MARK  
NO..

S  
O EATON INDUSTRIES MFG GMBH  
L 8580 AVENIDA DE LA FUENTE  
D SUITE C.-3004  
T SAN DIEGO CA 92154

MARK  
NO. 42SDEPAT LINE 69

S  
H  
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T

EATON INDUSTRIES MFG GMBH  
C/O BROKERAGE & LOGISTICS  
1659 GAILES BLVD  
SAN DIEGO CA 92154

ORDER DATE  
03/09/12

SALES ORDER NO.  
562051-001

PAGE  
1

WRITTEN  
NCW

ORIGIN  
01

SHIPMENT FROM OUR Portage

**WAREHOUSE**

[illegible]

**QUESTIONS ABOUT YOUR ORDER? CALL 269-324-2850**

We hereby certify that these goods were produced in compliance with all applicable requirements of Section 6, 7, and 12 of the Fair Labor Standards Act, as amended, and of regulations and orders of the United States Department of Labor issued under Section 14 thereof.

THE PRODUCTS LISTED ABOVE MEET THE REQUIREMENTS AND SPECIFICATIONS OF THE STANDARDS UNDER THE OCCUPATIONAL SAFETY AND HEALTH ACT OF 1970.

## PACKING LIST

**Depatie** FLUID POWER COMPANY  
HOSE AND AUTOMATION PRODUCTS

KALAMAZOO  
6256 American Avenue  
Portage, MI 49002  
Phone: 269-324-2850  
Fax: 269-324-2870

HOLLAND  
2298 112<sup>th</sup> Avenue  
Holland, MI 49424  
Phone: 616-748-4673  
Fax: 616-748-4674

## CONFORMANCE CERTIFICATE FOR MATERIAL SHIPPED

[www.depatie.com](http://www.depatie.com)

Depatie Fluid Power Co., hereby certifies that all materials used in the manufacture of parts required on purchase order 1255000 received from Eaton Aerospace conform to the material specifications indicated on drawings or in specifications indicated on the said purchase order. Test reports are on file with us or with International Seal Company for examination and indicate conformance with applicable specification requirements.

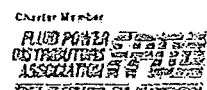
Depatie Fluid Power Co. also certifies that the parts listed below and shipped on March 12, 2012 are manufactured in accordance with material specifications called for on the purchase order, are current on the date on which the order was accepted.

Depatie Fluid Power Co., also certifies that the parts were manufactured by International Seal Company

CUSTOMER PART NO. 22566-15 Rev AK QUANTITY 100  
VENDOR PART NO. M83248/1-015 CURE DATE 1Q11  
SPECIFICATION MIL-R83248 BATCH NO. KKAV46  
COMPOUND V75

DEPATIE FLUID POWER COMPANY

Nancy Whitcomb  
Nancy Whitcomb



EATON AEROSPACE

**INSPECTION REQUIRED** POR

DESC:  
PACKING

ITEM: AE24859-014

REVISION:

D



LOT:



RCV'D: 10/14/2011

EXPIRE:

USER ID:

E3029721

WORK ORD ID:

SUPPLIER: 42001426



PO/WO: 42SDEPAT

QTY:

100



RECEIVER: E708363

POINT OF USE:

05A07010



DELIVER TO: RECINS

CURE DATE:

3010



INSPECTOR SIGNATURE:

INSPECTION STAMP:

*E. Robiano*



## These and Automation Products

Portage MI 49002

CUST P.O. NO. 42SDEPAT LINE 95

MARK  
NO. 2

**S  
O  
L  
D  
T  
O**

EATON INDUSTRIES MFG GMBH  
8580 AVENIDA DE LA FUENTE  
SUITE C -3004  
SAN DIEGO CA 92154

MARK  
NO

MARK  
NO. 42SDEPAT LINE 95

SHIP TO

EATON INDUSTRIES MFG GMBH  
C/O BROKERAGE & LOGISTICS  
1659 GAILES BLVD  
SAN DIEGO CA 92154

ORDER DATE  
09/30/11

SALES ORDER NO.  
551776-001

PAGE  
1

WRITTEN  
NCW

ORIGIN  
01

[illegible]

**QUESTIONS ABOUT YOUR ORDER? CALL 269-324-2850**

We hereby certify that these goods were produced in compliance with all applicable requirements of Section 6, 7, and 12 of the Fair Labor Standards Act, as amended, and of regulations and orders of the United States Department of Labor issued under Section 14 thereof.

THE PRODUCTS LISTED ABOVE MEET THE REQUIREMENTS AND SPECIFICATIONS OF THE STANDARDS UNDER THE OCCUPATIONAL SAFETY AND HEALTH ACT OF 1970.

## PACKING LIST

4

**Depatie** FLUID POWER COMPANY  
HOSE AND AUTOMATION PRODUCTS

**KALAMAZOO**  
6256 American Avenue  
Portage, MI 49002  
Phone: 269-324-2850  
Fax: 269-324-2870

**HOLLAND**  
2298 112<sup>th</sup> Avenue  
Holland, MI 49424  
Phone: 616-748-4673  
Fax: 616-748-4674

**CONFORMANCE CERTIFICATE FOR MATERIAL SHIPPED**

[www.depatie.com](http://www.depatie.com)

Depatie Fluid Power Co., hereby certifies that all materials used in the manufacture of parts required on purchase order 425 DEPAT received from **Eaton Aerospace** conform to the material specifications indicated on drawings or in specifications indicated on the said purchase order. Test reports are on file with us or with **International Seal Company** for examination and indicate conformance with applicable specification requirements.

Depatie Fluid Power Co. also certifies that the parts listed below and shipped on 06042011 are manufactured in accordance with material specifications called for on the purchase order, are current on the date on which the order was accepted.

Depatie Fluid Power Co., also certifies that the parts were manufactured by **International Seal Company**

CUSTOMER PART NO. AE24859-014 Rev D QUANTITY 100  
VENDOR PART NO. M25988/4-014 CURE DATE 3Q10  
SPECIFICATION MIL-R25988 BATCH NO. JD8F5  
COMPOUND F80

**DEPATIE FLUID POWER COMPANY**

Nancy Whitcomb  
Nancy Whitcomb

Portage MI 49002

CUST  
P.O. NO. 425DEPAT LINE 69

MARK  
NO. \_\_\_\_\_

S  
O  
L  
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O

EATON INDUSTRIES MFG GMBH  
8580 AVENIDA DE LA FUENTE  
SUITE C -3004  
SAN DIEGO CA 92154

MARK  
NO.

42SDEPAT LINE 69

SHIP TO

EATON INDUSTRIES MFG GMBH  
C/O BROKERAGE & LOGISTICS  
1659 GAILES BLVD  
SAN DIEGO CA 92154

ORDER DATE  
03/09/12

SALES ORDER NO.  
562051-002

PAGE  
1

WRITTEN  
NCW

ORIGIN  
01

SHIPMENT FROM OUR Portage

WAREHOUSE

[illegible]

QUESTIONS ABOUT YOUR ORDER? CALL 269-324-2850

We hereby certify that these goods were produced in compliance with all applicable requirements of Section 8, 7, and 12 of the Fair Labor Standards Act, as amended, and of regulations and orders of the United States Department of Labor issued under Section 14 thereof.

THE PRODUCTS LISTED ABOVE MEET THE REQUIREMENTS AND SPECIFICATIONS OF THE STANDARDS UNDER THE OCCUPATIONAL SAFETY AND HEALTH ACT OF 1970.

EATON AEROSPACE

**POR**

**DESC:**

**PACKING (CD)**

**CDF00037**

ITEM: 22566-15

REVISION:

**AK**

LOT: E785303

RCV'D: 11/21/2012

**EXPIRE:**

**USER ID:**

WORK ORD ID:	SUPPLIER: 42001426
--------------	--------------------

E3027592

PO/WO: 428DEPAT

QTY:

100

RECEIVER: E785303

POINT OF USE:

04A02018

DELIVER TO: 05A02018

<b>CURE DATE:</b>	
-------------------	--

INSPECTOR SIGNATURE:

INSPECTION STAMP

INSPECTION

## PACKING LIST

**CONFORMANCE CERTIFICATE FOR MATERIAL SHIPPED**

[www.depatie.com](http://www.depatie.com)

Depatie Fluid Power Co., hereby certifies that all materials used in the manufacture of parts required on purchase order 425DEPAT received from Eaton Aerospace conform to the material specifications indicated on drawings or in specifications indicated on the said purchase order. Test reports are on file with us or with International Seal Company for examination and indicate conformance with applicable specification requirements.

Depatie Fluid Power Co. also certifies that the parts listed below and shipped on NOV 13, 2012 are manufactured in accordance with material specifications called for on the purchase order, are current on the date on which the order was accepted.

Depatie Fluid Power Co., also certifies that the parts were manufactured by International Seal Company

CUSTOMER PART NO. 22566-15 Rev. AK QUANTITY 100

VENDOR PART NO. M83248/1-015 CURE DATE 4Q11

SPECIFICATION MIL-R83248 BATCH NO. KKAV46

COMPOUND V75


DEPATIE FLUID POWER COMPANY

Nancy Whitcomb  
Nancy Whitcomb





## AS 9102 Form 3 Characteristic Accountability, Verification and Compatibility Evaluation 3 of 3

1. Part Number 900803-1-10C				2. Part Name WIRE			3. Serial Number N/A	4. FAI Report 6511
Characteristic Accountability				Inspection / Test Results			Optional Fields	
C	6. Reference Location	900803-1-8C	8. Requirement	9. Results	C	11. Non-Conformance Number	14. [Insert columns, etc., as required by Organization or Customer]	
1	A4	N/A	NOTE 1	Information Noted	N/A	N/A	N/A	
2	A4	N/A	NOTE 2	Part Conforms / Information Noted	N/A	N/A	N/A	
3	A4	N/A	NOTE 3	Part Conforms / Information Noted	N/A	N/A	N/A	
4	C4	N/A	.070 +.002 / -.003	.0695	N/A	N/A	N/A	
5	D3	N/A	2.312 +/- .015	2.313	N/A	N/A	N/A	
6	B3 & B1	N/A	.017 +/- .010 x 2	.018 / .012	N/A	N/A	N/A	
7	B3 & B1	N/A	.065 +/- .005 x 2	.0609 / .060	N/A	N/A	N/A	
8	B2	N/A	R.144 X 2	.145	N/A	N/A	N/A	
9	A2	N/A	TOLERANCE BLOCK	Information Noted	N/A	N/A	N/A	
10	A2	N/A	PART NUMBER	900803-1-10C	N/A	N/A	N/A	
11	A2 & A1	N/A	MATERIAL / MATERIAL SPEC.	305 CRES. / ACES 921M57	N/A	N/A	N/A	
12	A1	N/A	FINISH / FINISH SPEC.	PASSIVATE / ACES 16P51	N/A	N/A	N/A	
13	D2	N/A	REVISION LEVEL	REV. A	N/A	N/A	N/A	
THE SIGNATURE INDICATES THAT ALL CHARACTERISTICS ARE ACCOUNTED FOR, MEETS DRAWING REQUIREMENTS OR ARE PROPERLY DOCUMENTED FOR DISPOSITION								
12. Prepared By : Sid Seagraves 						13. Date : 11/10/2009		



900803-1-10C  
CLASSIC METAL FINISHING, INC.  
2500 WEST ARGYLE ST.  
JACKSON, MI 49202  
USA

Ph: 517-990-0012  
Fax: 517-990-0629

### Pack List

Number: 36657

Date: 24-Aug-10

#### To

EATON INDUSTRIES MFG GMBH  
C/O BROKERAGE & LOGISTICS  
7702 SAINT ANDREWS AVENUE SUITE 102 & 104  
SAN DIEGO, CA 92154  
US

#### Ship To

VERONICA ARAUJO  
EATON INDUSTRIES MFG GMBH  
C/O BROKERAGE & LOGISTICS  
7702 SAINT ANDREWS AVENUE SUITE 102 & 104  
SAN DIEGO, CA 92154  
US

Ph: 01152-664 9781725

<b>Terms</b>		<b>Ship Via</b>	
Net 60 Days			
<b>Quantity</b>	<b>Description</b>		
	Form #75-11 Revision: L (8/2/2010)		
	<div><div>EATON AEROSPACE</div><div>INSPECTION REQUIRED - POR</div><div>DESC: WIRE</div><div>ITEM: 900103-1-10C</div><div>REVISION: A</div><div>LOT: E639118</div><div>RCV'D: 08/31/2010</div><div>USER ID: E3027699</div><div>WORK ORD ID:</div><div>EXPIRE:</div><div>SUPPLIER: 42001606</div><div>PO/WO: 42SCMF</div><div>QTY: 300</div><div>RECEIVER: E639118</div><div>POINT OF USE: 05A06011</div><div>DELIVER TO: RECINS</div><div>CURE DATE:</div><div>INSPECTOR SIGNATURE: <i>Eaton</i></div><div>INSPECTION STAMP:</div></div>		

Page 2 of 2

Authorized Signature: *L.E. au*



900803-1-10C

CLASSIC METAL FINISHING, INC.  
2500 WEST ARGYLE ST.  
JACKSON, MI 49202  
USA

Ph: 517-990-0012

Fax: 517-990-0629

## Pack List

Number: 36657

Date: 24-Aug-10

## To

EATON INDUSTRIES MFG GMBH  
C/O BROKERAGE & LOGISTICS  
7702 SAINT ANDREWS AVENUE SUITE 102 & 104  
SAN DIEGO, CA 92154  
US

## Ship To

VERONICA ARAUJO  
EATON INDUSTRIES MFG GMBH  
C/O BROKERAGE & LOGISTICS  
7702 SAINT ANDREWS AVENUE SUITE 102 & 104  
SAN DIEGO, CA 92154  
US

Ph: 01152-664 9781725

Terms	Ship Via																
Net 60 Days																	
<table border="1"><thead><tr><th>Quantity</th><th>Description</th></tr></thead><tbody><tr><td>300 ea</td><td>Part: 900803-1-10C Dry Filmed Wire Rev: A SO: 53 PO: 42SCMF Line: 09 Blast Passivate per ACES 16P51 Dry Film per ACES 9P1 HEAT LOT: OEL4 MFG LOT: 6511S5154</td></tr></tbody></table>	Quantity	Description	300 ea	Part: 900803-1-10C Dry Filmed Wire Rev: A SO: 53 PO: 42SCMF Line: 09 Blast Passivate per ACES 16P51 Dry Film per ACES 9P1 HEAT LOT: OEL4 MFG LOT: 6511S5154													
Quantity	Description																
300 ea	Part: 900803-1-10C Dry Filmed Wire Rev: A SO: 53 PO: 42SCMF Line: 09 Blast Passivate per ACES 16P51 Dry Film per ACES 9P1 HEAT LOT: OEL4 MFG LOT: 6511S5154																
<p>Certificate of Compliance</p> <p>ISO 9001:2008 / AS9100:B Certified      NADCAP Certified, Audit #133215 Exp. Date: April 9, 2011      Exp. Date: Jan. 31, 2012</p> <p>Classic Metal Finishing certifies that all product meets requirements of the purchase agreement.</p> <p>Classic Metal Finishing reserves the right to void a certificate of conformance for any parts that have been anodized or chemical conversion coated if they have subsequently been subjected to temperatures above 140 degrees F during either internal or external processing.</p> <p>Classic Metal Finishing certifies that all Special Processes were performed per the latest revision of the following specifications:</p> <table border="1"><thead><tr><th>Process:</th><th>Specification:</th></tr></thead><tbody><tr><td>Type II &amp; Type III Anodize</td><td>MIL-A-8625F (ACES 1758-BD)</td></tr><tr><td>Type II Passivation</td><td>AMS 2700C (ACES 16P50-DD, ASTM A 967-05)</td></tr><tr><td>Type VII Passivation</td><td>AMS 2700C (ACES 16P51-DE, ASTM A 967-05)</td></tr><tr><td>Chemical Conversion Coat</td><td>MIL-DTL-5541F (ACES 16P5-CN &amp; 16P25-CC)</td></tr><tr><td>Dry Film Lubrication</td><td>ACES 9 (BD)</td></tr><tr><td>Mechanical Clean / Blast</td><td>ACES 16P4 (BU) and 16P10 (BV)</td></tr><tr><td>Teflon Coat</td><td>ACES 1758 (BB)</td></tr></tbody></table> <p>Classic Metal Finishing inspection meets or exceeds ANSI/ASQC Z1.4-2003 General Inspection Level II sampling requirements.</p> <p>Authorized by : Sam Absher, Engineering Manager</p>		Process:	Specification:	Type II & Type III Anodize	MIL-A-8625F (ACES 1758-BD)	Type II Passivation	AMS 2700C (ACES 16P50-DD, ASTM A 967-05)	Type VII Passivation	AMS 2700C (ACES 16P51-DE, ASTM A 967-05)	Chemical Conversion Coat	MIL-DTL-5541F (ACES 16P5-CN & 16P25-CC)	Dry Film Lubrication	ACES 9 (BD)	Mechanical Clean / Blast	ACES 16P4 (BU) and 16P10 (BV)	Teflon Coat	ACES 1758 (BB)
Process:	Specification:																
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Type II Passivation	AMS 2700C (ACES 16P50-DD, ASTM A 967-05)																
Type VII Passivation	AMS 2700C (ACES 16P51-DE, ASTM A 967-05)																
Chemical Conversion Coat	MIL-DTL-5541F (ACES 16P5-CN & 16P25-CC)																
Dry Film Lubrication	ACES 9 (BD)																
Mechanical Clean / Blast	ACES 16P4 (BU) and 16P10 (BV)																
Teflon Coat	ACES 1758 (BB)																

Page 1 of 2

Authorized Signature:

43128/NO  
elbdo  
PA  
①  
12



CLASSIC METAL FINISHING, INC. **900803-1-10C**  
2500 WEST ARGYLE ST.  
JACKSON, MI 49202  
USA

Ph: 517-990-0012  
Fax: 517-990-0829

### Pack List

Number: 36657

Date: 24-Aug-10

#### To

EATON INDUSTRIES MFG GMBH  
C/O BROKERAGE & LOGISTICS  
7702 SAINT ANDREWS AVENUE SUITE 102 & 104  
SAN DIEGO, CA 92154  
US


#### Ship To

VERONICA ARAUJO  
EATON INDUSTRIES MFG GMBH  
C/O BROKERAGE & LOGISTICS  
7702 SAINT ANDREWS AVENUE SUITE 102 & 104  
SAN DIEGO, CA 92154  
US

Ph: 01152-664 9781725

<b>Terms</b>		<b>Ship Via</b>																	
Net 60 Days																			
<b>Quantity</b>	<b>Description</b>																		
300 ea	Part: 900803-1-10C Rev: A Dry Filmed Wire  SO: 53 PO: 42SCMF Line: 09 Blast Passivate per ACES 16P51 Dry Film per ACES 9P1  HEAT LOT: OEL4 MFG LOT: 6511S5154																		
<b>Certificate of Compliance</b>  ISO 9001:2008 / AS9100:B Certified NADCAP Certified, Audit #133215 Exp. Date: April 9, 2011 Exp. Date: Jan. 31, 2012  Classic Metal Finishing certifies that all product meets requirements of the purchase agreement.  Classic Metal Finishing reserves the right to void a certificate of conformance for any parts that have been anodized or chemical conversion coated if they have subsequently been subjected to temperatures above 140 degrees F during either internal or external processing.  Classic Metal Finishing certifies that all Special Processes were performed per the latest revision of the following specifications:  <table border="0"><tr><td>Process:</td><td>Specification:</td></tr><tr><td>Type II &amp; Type III Anodize</td><td>MIL-A-8625F (ACES 1758-BD)</td></tr><tr><td>Type II Passivation</td><td>AMS 2700C (ACES 16P50-DD, ASTM A 967-05)</td></tr><tr><td>Type VII Passivation</td><td>AMS 2700C (ACES 16P51-DE, ASTM A 967-05)</td></tr><tr><td>Chemical Conversion Coat</td><td>MIL-DTL-5541F (ACES 16P5-CN &amp; 16P25-CC)</td></tr><tr><td>Dry Film Lubrication</td><td>ACES 9 (BD)</td></tr><tr><td>Mechanical Clean / Blast</td><td>ACES 16P4 (BU) and 16P10 (BV)</td></tr><tr><td>Teflon Coat</td><td>ACES 1758 (BB)</td></tr></table> Classic Metal Finishing inspection meets or exceeds ANSI/ASQC Z1.4-2003 General Inspection Level II sampling requirements.  Authorized by : Sam Absher, Engineering Manager				Process:	Specification:	Type II & Type III Anodize	MIL-A-8625F (ACES 1758-BD)	Type II Passivation	AMS 2700C (ACES 16P50-DD, ASTM A 967-05)	Type VII Passivation	AMS 2700C (ACES 16P51-DE, ASTM A 967-05)	Chemical Conversion Coat	MIL-DTL-5541F (ACES 16P5-CN & 16P25-CC)	Dry Film Lubrication	ACES 9 (BD)	Mechanical Clean / Blast	ACES 16P4 (BU) and 16P10 (BV)	Teflon Coat	ACES 1758 (BB)
Process:	Specification:																		
Type II & Type III Anodize	MIL-A-8625F (ACES 1758-BD)																		
Type II Passivation	AMS 2700C (ACES 16P50-DD, ASTM A 967-05)																		
Type VII Passivation	AMS 2700C (ACES 16P51-DE, ASTM A 967-05)																		
Chemical Conversion Coat	MIL-DTL-5541F (ACES 16P5-CN & 16P25-CC)																		
Dry Film Lubrication	ACES 9 (BD)																		
Mechanical Clean / Blast	ACES 16P4 (BU) and 16P10 (BV)																		
Teflon Coat	ACES 1758 (BB)																		

**SUPPLIER****CERTIFICATE OF CONFORMANCE**

Customer	Eaton Aerospace		
Part No.:	900803-1-10C	Rev:	A
Part Name:	Wire	P.O. No.:	HPS5154
Job #:	6511	Date Complete:	11/10/09
		Quantity	5,000
MATERIAL	SPECIFICATION	REV	MATERIAL LOT OR MILL HEAT #
Material Mill Cert	ACES 921M57 305 CRES	A	OEL4
SPECIAL PROCESSES	SPECIFICATION	REV	REMARKS
Physical and Chemical Analysis			
Non Destructive Testing			
Heat Treatment			
Plating			
Chemical Processing - PASSIVATE	ACES 16P51	DC	
Chemical Processing - DRY FILM	ACES 9P1	BB	
Chemical Processing			
Welding and Brazing			
Other: (LIST)			
OUTSIDE MACHINING SUPPLIER	KEY PROCESSES	REMARKS	
<p>The undersigned certifies that the parts or items above were manufactured from materials and by processes free from mercury and/or radium contamination. The undersigned also certifies that the part(s) and material identified above meet(s) all the requirements of the purchase agreement including DFAR 252.225-7014 and PAC-ST004 and approved special processes/processors. Certificates are attached for all material or special processes.</p>			
<p>Signature: <u></u></p> <p>Title: <u>Sam Absher - Quality/Mfg Engineer</u></p> <p>Date: <u>11-10-2009</u></p>			

Revision: A (09/24/09)

Brookfield Wire Company  
P.O. Box 240, Brookfield MA. 01506

Certificate Of Compliance

ISO 9002 Registered

Sold To: Form Cut Industries 200 Broad St. Newark, NJ 07104	Mill Order #:	83512	Quantity Shipped	389	Date Shipped	08/20/2008	Condition	ANNLD
	Customer P.O. #	14643	Size	.068	Alloy	305	Temper	80/100,000 PSI
	Specifications: AMS 5685J, ASTM A580 DFARS COMPLIANT ACES 921M57, COUNTRY OF ORIGIN USA							

Chemistry:

Heat No.	C	Mn	Si	S	P	Cr	Ni	Mo	Cu	N	Co	Ti	Al	Fe	
0EL4	.0198	1.0893	.4635	.0005	.03	18.7721	11.5223	.4096	.3524	.0344	.1275				

Average Test Results:

Size (In)	Tensile Strength (psi)	Yield Strength (psi)	% Elongation in 10"	% Reduction in Area	Wrap / Bend Test	
.0683	90,000	41,000				

Material as shipped from Brookfield is free from Mercury contamination.  
This is to certify that the material shipped on above purchase order complies with the requirements noted thereon.

Authorized Representatives: M Stanton W Lussier

*Michael Stanton*

Reference Number 6256

08/22/2008 11:48 130886/25/9

BRUNN-TELE WIRE

FILE 04

900803-1-10C


**Form Cut Industries Inc.**

197 Mt. Pleasant Avenue, Newark, New Jersey 07104  
 (973) 483-5154 • FAX (973) 483-4512  
 E-mail: sales@formcut.com

CLASSIC METAL FINISHING  
 2500 WEST ARGYLE ST.  
 JACKSON, MI 49202 /


CERTIFICATE OF COMPLIANCE

DATE 8/13/09  
 P.O. NUMBER 1628  
 PART NUMBER 7900803-1-10C  
 QUANTITY 5,000  
 PACKING LIST NO. 169501  
 HEAT / MELT NO. M#06L4

WE CERTIFY THAT ALL MATERIAL SHIPPED UNDER SUBJECT PURCHASE  
 ORDER CONFORMS TO SPECIFICATIONS AS NOTED ON THE PURCHASE  
 ORDER AND REFERENCED DOCUMENTS.

PHYSICAL, CHEMICAL AND/OR ELECTRICAL DATA COVERING THE  
 MATERIAL AND/OR PROCESSES USED IN THE MANUFACTURE OF THESE  
 PARTS IS ON FILE AND SUBJECT TO YOUR EXAMINATION.

The Material Used To Fabricate  
 Parts On This Order Complies  
 With DFARS Clause 252-225-7014,  
 And ALT. 1.

FORM CUT INDUSTRIES, INC.

*Kenneth de Graaf*  
 KENNETH DE GRAAF  
 SALES MANAGER







Aerospace EATON AEROQUIP LLC.  
EAST AVE PLANT  
300 S. EAST AVE  
JACKSON, MI 49203-1972  
UNITED STATES

517-787-8121

Packslip: HS337276

Cust. PO:42HP589

Print Date: 09/09/14

SHIP TO	Customer ID: C8580A ATTN EATON AEROSPACE C/O BROKERAGE & LOGISTICS SOLUTIONS INC 1659 GAILES AVE SAN DIEGO, CA 92154 UNITED STATES				SOLD TO	Customer ID: C8580A EATON AEROSPACE C/O BROKERAGE & LOGISTICS SOLUTIONS INC 1659 GAILES AVE SAN DIEGO, CA 92154 UNITED STATES			
	Order	Rev	Order	Terms		FOB	Ship via		
42HP589	0		NET 30 DAYS FROM INVOICE	JACKSON, MICHIGAN	FEDEX GROUND				
Bill of Lading		Salesperson		Shipment	Weight	Package			
		Husted, Steve		HS337276	0.0	0.0			
Remarks									
Customer Line #	Sales Line#	Part Number	Description	Rev.	Quantity Shipped	Promise Date	Required Date		
1		AE83384G	VALVE-CPL	NO	6.00 EA	09/10/14	09/10/14		

EATON AEROSPACE

POR

DESC:  
VALVE

ITEM: AE83384G

REVISION:  
NO

LOT:

RCV'D: 09/12/2014



EXPIRE:

USER ID:

WORK ORD ID: SUPPLIER: 42001190

E3027592

PO/WO: 42HP589

QTY:

6

RECEIVER: E910272

POINT OF USE:

03A03021

DELIVER TO: 05A07009

CURE DATE:



INSPECTOR SIGNATURE:

INSPECTION STAMP:

INSPECTION STAMP

13

FAA 8130-3 Tag	Yes <input type="checkbox"/>	FAA Repair	DD250	Yes <input type="checkbox"/>	Proforma Invoice Req'D Yes <input type="checkbox"/>	Gov't Source Req'D Yes <input type="checkbox"/>	Page 1 of 1
CERTIFICATE OF CONFORMANCE							
We hereby certify that the material requested under the Order No. above and supplied as per referenced Shipper No. has been manufactured in accordance with and conforms to all applicable specifications and standards of the customer noted herein, the U.S. Government, and the Federal Aviation Agency, as applicable. We further certify that all material and processing used in the manufacture of the parts conform to applicable specifications and/or drawings set forth in the purchase order or related documents. All required records, including chemical, physical and functional test reports are on file with us or our suppliers and are available for examination.							
EATON CORPORATION							
 Kevin Creech Quality Manager							



Aerospace EATON AEROQUIP LLC.  
EAST AVE PLANT  
300 S. EAST AVE  
JACKSON, MI 49203-1972  
UNITED STATES

517-787-8121

Packslip: HS335997

Cust. PO:42HP423

Print Date: 09/04/14

SHIP TO	Customer ID: C8580A ATTN EATON AEROSPACE C/O BROKERAGE & LOGISTICS SOLUTIONS INC 1659 GAILES AVE SAN DIEGO, CA 92154 UNITED STATES				SOLD TO	Customer ID: C8580A EATON AEROSPACE C/O BROKERAGE & LOGISTICS SOLUTIONS INC 1659 GAILES AVE SAN DIEGO, CA 92154 UNITED STATES			
	Order	Rev	Order	Terms		FOB	Ship via		
42HP423	0		NET 30 DAYS FROM INVOICE	JACKSON, MICHIGAN	FEDEX GROUND				
Bill of Lading		Salesperson		Shipment	Weight	Package			
		Husted, Steve		HS335997	0.0	0.0			
Remarks									
Customer Line #	Sales Line#	Part Number	Description	Rev.	Quantity Shipped	Promise Date	Required Date		
1		AE71580H	BODY-CPL	A	6.00 EA	09/08/14	09/08/14		

EATON AEROSPACE **INSPECTION REQUIRED** POR

DESC:  
BODY

ITEM: AE71580H

LOT: E909925

USER ID: E3027592

PO/NO: 42HP423

RECEIVER: E909925

DELIVER TO: RECINS

INSPECTOR SIGNATURE: *BCM*

REVISION: A

RCV'D: 09/11/2014

EXPIRE:

WORK ORD ID: SUPPLIER: 42001190

QTY: 6

POINT OF USE: 04A03021

CURE DATE:

INSPECTION STAMP:

12



FAA 8130-3 Tag	Yes <input type="checkbox"/>	FAA Repair	DD250	Yes <input type="checkbox"/>	Proforma Invoice Req'D Yes <input type="checkbox"/>	Gov't Source Req'D Yes <input type="checkbox"/>	Page 1 of 1
<b>CERTIFICATE OF CONFORMANCE</b> We hereby certify that the material requested under the Order No. above and supplied as per referenced Shipper No. has been manufactured in accordance with and conforms to all applicable specifications and standards of the customer noted herein, the U.S. Government, and the Federal Aviation Agency, as applicable. We further certify that all material and processing used in the manufacture of the parts conform to applicable specifications and/or drawings set forth in the purchase order or related documents. All required records, including chemical, physical and functional test reports are on file with us or our suppliers and are available for examination. EATON CORPORATION <i>Kevin Creech</i> Kevin Creech Quality Manager							

DESC:  
GUIDE

CMF0049

ITEM: AE82926G



LOT: E910309



REVISION:

NO

WORK ORDER ID:

SUPPLIER:

PO/WO:



QTY:

6

DATE RECEIVED:

09/22/2014

REPRINT

CURE DATE:

EXP. DATE:

DATE ACCEPTED:

POINT OF USE:

04A06017

PCR ID:

E910309

INSPECTOR SIGNATURE:

INSPECTION STAMP:

LIBRE DE  
INSPECTION



AERTECH MACHINING  
& MANUFACTURING, INC.

# CERTIFICATE OF CONFORMANCE

Company: <b>Aertech Machining &amp; Mfg.</b>					
Mailing address: <b>2903 W. Michigan Ave. Jackson, MI 49202</b>					
Eaton Location	<b>San Diego, CA</b>	Part No.:	<b>AE82926G</b>	Rev:	<b>NO</b>
Part Name:	<b>AE82926G</b>	P.O. No.	<b>42SARTEC</b>		
Packing Slip No.:	<b>167658</b>	Date Shipped:	<b>09/08/2014</b>	No. of Pcs/Length:	<b>6</b>
Manufacturing Lot Number: <b>130820S0267</b>					
QMS Management Representative: <b>Daniel R. Shanks</b>					
Customer Specific Information:					

Part Ordered Less the following:

Internal Processing Conforms to the following:

MATERIAL	SPECIFICATION	REV	EATON MATERIAL LOT OR MILL HEAT #
024	AMS-QQ-A-225/6	A	10048054
SPECIAL PROCESSES	SPECIFICATION	REV	REMARKS (SP Accreditation No. & Exp. Date)
Coating - Chem Conversion DMF	ACES 16P5	CP	8903147182 - 07/31/2015
SUB-TIER SUPPLIER(s)	KEY PROCESSES	REMARKS	

The undersigned certifies that the part(s) and material identified above meet(s) all the requirements of the purchase agreement including the use of proper material and Eaton-approved special processes/processors. Certificates of all materials and special processing listed are attached. Appropriate records are retained. All appropriate materials are certified to DFAR 252.225-7009

Signature:	Adam Bauerly
Title:	Quality Representative
Date:	09/08/2014
Printed	09/05/2014

The undersigned certifies that the parts or items above were manufactured from materials and by processes free from mercury and/or radium contamination. (Complete if required by P.O.)

Signature:	Adam Bauerly
Title :	Quality Representative
Date:	09/08/2014
Printed	09/05/2014



Machining | Assembly | Metal Finishing

CMF, INC. - Metal Finishing Division  
2500 WEST ARGYLE ST.  
JACKSON, MI 49202  
United States of America

Ph: 517-990-0011  
Fax: 517-990-0257

### Pack List

Number: 144329

Date: 04-Sep-14

#### To

AERTECH MACHINING & MFG.  
2903 W. Michigan Avenue  
Jackson, MI 49202  
United States of America

#### Ship To

Dave Variell  
AERTECH MACHINING AND MFG.  
2903 W. Michigan Avenue  
Jackson, MI 49202  
United States of America

Ph: 517-782-4644

Fax: 517-782-8323

Ph: 517-782-4644

Fax: 517-782-8323

<b>Terms</b>		<b>Ship Via</b>	
Net 30 Days		CustomerPickUp	
<b>Quantity</b>	<b>Description</b>		
6 ea	Part: AE82926G Guide Job: 5999-36 Chemical Conversion Coat per ACES 16P5 JOB 130820		
Rev: NONE PO: 99384 Line: 1			
Certificate of Compliance  ISO 9001:2008 / AS9100:C Certified      NADCAP Certified: # 8903147182 Exp. Date: April 9, 2017      Exp. Date: July 31, 2015  Classic Metal Finishing certifies that all product meets requirements of the purchase agreement unless otherwise identified/notified and that all special processes were performed per the latest revision of the specification.  Process:      Specification:  <del>Type II &amp; Type III Anodize      MIL-A-8625F (ACES 1758-BD)</del> <del>Type II Passivation      AMS-2700E (ACES 16P50-DE, ASTM A 967-13)</del> <del>Type VII Passivation      AMS-2700E (ACES 16P51-DE, ASTM A 967-13)</del> Chemical Conversion Coat      MIL-DTL-5541F (ACES 16P5-CP & 16P25-CC) Dry Film Lubrication      ACES 9 (BJ), ACES 2705P5 (AR) Mechanical Clean / Blast      ACES 16P4 (BU) and 16P10 (BV) Teflon Coat      ACES 1758 (BD)  Classic Metal Finishing inspection meets or exceeds ANSI/ASQ Z1.4-2008 General Inspection Level II sampling requirements.  Authorized by : Sam Absher, Sales Manager  Form #75-11      Revision: Y (12/18/13)			

*[Signature]*

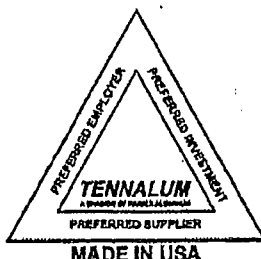
# KAISER

## ALUMINUM

### FABRICATED PRODUCTS

Tennalum  
309 Industrial Drive  
Jackson, TN 38301  
731-423-2811

U233



## CERTIFIED TEST REPORT

<http://Online.KaiserAluminum.com>

L 367507

CUSTOMER PO NUMBER: P583841423-2		CUSTOMER PART NUMBER: 512972		PRODUCT DESCRIPTION: Cold Finished Round	
KAISER ORDER NUMBER: 696744	LINE ITEM: 2	SHIP DATE: 05/13/2014		ALLOY: 2024	TEMPER: T351
WEIGHT SHIPPED: 6066 lbs.	QUANTITY: 946 pcs.	B/L NUMBER: 36859	DIAM/DAF/THKNS: 0.750 in.	WIDTH: 0.000 in.	LENGTH: 144.0 in.
SHIP TO:  EMJ 1900 Mitchell Blvd Schaumburg, IL 60193 USA			SOLD TO:  EMJ 1900 Mitchell Blvd Schaumburg, IL 60193 USA		

Test Code: 1000 AC

### Actual Physical Properties

Lot Number	LONG. UTS ksi	LONG. YTS ksi	LONG. ELONG. %
10048054	68.6	52.1	22.0
	69.1	52.2	23.0
	67.9	51.5	24.0
	68.7	52.0	22.0
	68.6	52.0	22.0
	68.5	51.7	21.5
	69.5	52.0	21.0
	69.5	52.4	22.0
	69.2	52.5	22.0
	68.6	52.0	23.0
	68.8	51.9	22.0
	68.7	52.0	23.0

### Chemical Composition WT % (Aluminum Remainder)

	Si	Fe	Cu	Mn	Mg	Cr	Zn	Ti	OTHERS EACH	OTHERS TOTAL	Lot
Actual	0.104	0.212	4.62	0.717	1.363	0.017	0.142	0.0173			10048054
Max	0.50	0.50	4.9	0.9	1.8	0.10	0.25	0.15	0.05	0.15	
Min			3.8	0.30	1.2						

### Specifications

#### CERTIFICATION

Kaiser Aluminum Fabricated Products, LLC ("Kaiser") hereby certifies that the metal shipped under this order has been inspected and tested and found in conformance with the applicable specifications forming a part of the description set forth in Kaiser's sales acknowledgement form. Any warranty is limited to that shown on Kaiser's general terms and conditions of sale. Test reports are on file, subject to examination.

John Rennekamp, Quality Manager

Plant Serial: 203276

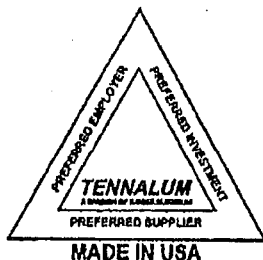
Kaiser Order Number: 696744

Line Item: 2

# **KAISER ALUMINUM**

**FABRICATED PRODUCTS**

Tennalum  
309 Industrial Drive  
Jackson, TN 38301  
731-423-2811



## **CERTIFIED TEST REPORT**

<http://Online.KaiserAluminum.com>

Standard: ISO 9001,ASTMB211-12,AMS4120R,AMS-QQ-A-225/6A

### **Miscellaneous Notes**

#### **Made in USA**

This material was melted and manufactured in the USA. Mercury is not a normal contaminant in aluminum alloys. Neither mercury nor any of its compounds were utilized by Kaiser Aluminum in the manufacture of this material. AS9100C:2009 The recording of false, fictitious or fraudulent statements or entries on the certificate may be punished as a felony under federal law.

This material meets the requirements of T4 temper and of QQ-A-225/6E Amendment 1 (CANCELLED). This material is RoHS 2 compliant.

### **CERTIFICATION**

Kaiser Aluminum Fabricated Products, LLC ("Kaiser") hereby certifies that the metal shipped under this order has been inspected and tested and found in conformance with the applicable specifications forming a part of the description set forth in Kaiser's sales acknowledgement form. Any warranty is limited to that shown on Kaiser's general terms and conditions of sale. Test reports are on file, subject to examination.

John Rennekamp, Quality Manager



Plant Serial: 203276

Kaiser Order Number: 696744

Line Item: 2

# CERTIFICATE OF TEST



Page 01 of 02

Certification Date  
15-AUG-2014

CUSTOMER ORDER NUMBER

98997 L2

EARLE M. JORGENSEN COMPANY  
1900 MITCHELL BLVD.  
SCHAUMBURG IL 60193

Invoice Number  
S357438

CUSTOMER PART NUMBER

SOLD TO: AERTECH MACHINING & MFG, INC.

2903 W MICHIGAN AVE  
JACKSON MI 49202

SHIP TO:

AERTECH MACHINING & MFG, INC.

2903 W MICHIGAN AVE  
JACKSON MI 49202

Description: 2024-T351 CF BAR AMS QQ A 225/6, QQ A 225/6  
3/4 RD X 12'  
HEAT: 10048054  
ITEM: 512972  
Line Total: 32 LB

Specifications:

QQ A 225/6 E\*  
AMS QQ A 225/6 A

ASTM B211 12  
\*AMD 1 CANCELLED

AMS 4120 R  
MEETS T4 TEMPER

## ALUMINIUM CHEMICAL ANALYSIS

DESCRIPTION:

	SI	FE	CU	MN	MG	CR	ZN	TI
MIN			3.8	0.3	1.2			
MAX	0.5	0.5	4.9	0.9	1.8	0.1	0.25	0.15

OTHERS : EACH TOTAL  
0.05 0.15 AL REMAINDER

RCPT: R367507

VENDOR: KAISER ALUMINUM (F/F)

COUNTRY OF ORIGIN : USA

## MECHANICAL PROPERTIES

DESCRIPTION	YLD STR KSI	ULT TEN KSI	%ELONG IN 02 IN	%RED IN AREA	HARDNESS
	52.1	68.6	22.0		
	52.2	69.1	23.0		

The above data were transcribed from the manufacturer's Certificate of Test after verification for completeness and specification requirements of the information on the certificate. All test results remain on file subject to examination.

Material did not come in contact with mercury while in our possession.

CHUCK FRED A

We hereby certify that the material covered by this report will meet the applicable requirements described herein, including any specification forming a part of the description.

The willful recording of false, fictitious, or fraudulent statements in connection with test results may be punishable as a felony under federal statutes.

*Charles E. Freda*  
MANAGER, QUALITY ASSURANCE



# CERTIFICATE OF TEST

Page 02 of 02

Certification Date  
15-AUG-2014

**CUSTOMER ORDER NUMBER**

98997 L2

EARLE M. JORGENSEN COMPANY  
1900 MITCHELL BLVD.  
SCHAUMBURG IL 60193

Invoice Number  
S357438

**CUSTOMER PART NUMBER**

<b>SOLD TO:</b>	AERTECH MACHINING & MFG, INC	<b>SHIP TO:</b>	AERTECH MACHINING & MFG, INC.
	2903 W MICHIGAN AVE		2903 W MICHIGAN AVE
	JACKSON MI 49202		JACKSON MI 49202

Description: 2024-T351 CF BAR AMS QQ A 225/6, QQ A 225/6  
3/4 RD X 12'  
HEAT: 10048054  
ITEM: 512972  
Line Total: 32 LB

**COMMENTS**

melted & mfg in usa  
this material is rohs 2 compliant  
chemistry:

si 0.104/0.50  
fe 0.212/0.50  
cu 4.62/4.9/3.8  
mn 0.717/0.9/0.30  
mg 1.363/1.8/1.2  
cr 0.017/0.10  
zn 0.142/0.25  
ti 0.0173/0.15

others each 0.05/others total 0.15

The above data were transcribed from the manufacturer's Certificate of Test after verification for completeness and specification requirements of the information on the certificate. All test results remain on file subject to examination.

We hereby certify that the material covered by this report will meet the applicable requirements described herein, including any specification forming a part of the description.

The willful recording of false, fictitious, or fraudulent statements in connection with test results may be punishable as a felony under federal statutes.

Material did not come in contact with mercury while in our possession.

CHUCK FREDA

*Charles E. Freda*  
MANAGER, QUALITY ASSURANCE

The property described below in apparent good order except as noted (montonic and condition of contents unknown) manifest, consigned and destined as indicated below, which is subject throughout this contract to anything any person or corporation in possession of the property under the contract agrees to carry to its actual place of delivery at said destination if on its route otherwise to deliver to another carrier on the route in said destination it is mutually agreed as to such carrier or carriers, or any of said property over any or any portion or portions to destination, either by sea route or by land route, and any carrier of said property in any or any of said portions or portions shall be subject to all terms and conditions of the Uniform Domestic Freight Bill of Lading and Rules (1) in Official, Southern, Western and Illinois freight classification in effect on the date hereof. If it is a rail or rail water shipment, or (2) in the applicable water carrier classification or tariff if this is a motor carrier shipment.

Shipper hereby certifies that it is so familiar with all the terms and conditions of the said bill of lading, including those on the back thereof, and with the classification or tariff which governs the transportation of this shipment, and the said terms and conditions are hereby agreed to by the shipper and accepted for himself and his assigns.

# TRUFORM MACHINE

## Packing List

Bill EATON INDUSTRIES MFG GMBH  
To: 8580 Avenida de la Fuente  
Suite C -3004  
San Diego, CA 92154  
United States

Ship EATON C/O BROKERAGE&LOGISTICS  
To: 1659 GAILES BLVD  
SAN DIEGO, CA 92154  
United States

Packing List No: 61574  
Shipment Date: 09/09/14  
Ship Via: Federal Express  
Order Number: 60307  
Order Date: 09/09/14

Customer Code: TJM  
Phone: (619) 542-2100  
PO Number: 42STRUFO  
Terms: 1.5% 10 - Net 30 Days

Item	Open	Shipped	Back Ord	Canceled	Unit	Description	Revision	Job Number
58	6	6	0		EA	AE99352G BODY 2024 T-351 ANODIZE BLUE ACES 1758P1 HPS8847 LINE 217 ** I2STRUFO LINE 58	B	60307-01

EATON AEROSPACE

POR

DESC:  
BODY

CMF0862

ITEM: AE99352G

REVISION:  
B

Mfg Lot #1: 54978S8847

Qty 6



LOT: E910686

RCV'D: 09/17/2014



EXPIRE:

USER ID: E9928065

WORK ORD ID:

SUPPLIER: 42001196

PO/WO: 42STRUFO

QTY:

6

RECEIVER: E910686

POINT OF USE:

05A05012

DELIVER TO: 06A07043

CURE DATE:



INSPECTOR SIGNATURE: INSPECTION STAMP:

**LIBRE DE  
INSPECCION**



TRUFORM MACHINE  
2510 PRECISION ST.  
JACKSON, MI 49272 USA  
Tel: 517 782 3051  
Fax: 517 782 8455

### CERTIFICATE OF CONFORMANCE

Eaton Location	Tijuana, Mexico	Part No.	AE99352G	Rev:	B
Part Name:	BODY	P.O. No.:	42STRUFO	ITEM: 58	
Pack Slip No.:		Ship Date		No of Pcs /Length	69
Manufacturing Lot No.:	54978S8847				
<b>MATERIAL</b>	<b>SPECIFICATION</b>	<b>REV</b>	<b>EATON MATERIAL LOT OR MILL HEAT#</b>		
2024 - T351	AMS 4120	R	10046291		
<b>SPL. PROCESSES</b>	<b>SPECIFICATION</b>	<b>REV</b>	<b>REMARKS</b>		
Physical and Chemical analysis					
Non Destructive Testing					
Heat Treatment					
Plating					
Chemical Processing					
Welding and Brazing					
Metal Finish	ANODIZE BLUE ACES 1758P1	BD	CMF - CP Nadcap #139279 Exp. 07/31/13		
Other: (LIST)					
<b>OUTSIDE MACHINING SUPPLIER</b>	<b>KEY PROCESSES</b>	<b>REMARKS</b>			
		"Thread conformance inspected per Truform internal sampling plan"			

The undersigned certifies that the part(s) and material identified above meet(s) all the requirements of the purchase agreement including use of proper material and approved special processes/processors. Certificates are attached for all material or special processes as listed below as applicable. Appropriate records are retained.

The undersigned certifies that the part(s) or items above were manufactured from materials and by processes free from mercury and/or radium contamination. (Complete if required by P.O.)

Signature:

Printed: Michael Russell

Title: Q.A. Mgr.

Date: 09/08/14

Customer: TRUFORM MACHINE

Ord #: S257664 Part #:

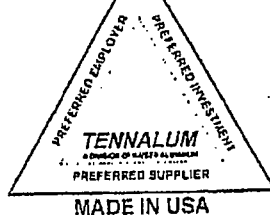
Cust PO#: A01-110

AE99352G REV. B

# KAISER ALUMINUM

FABRICATED PRODUCTS

Tennalum  
309 Industrial Drive  
Jackson, TN 38301  
731-423-2811



**CERTIFIED TEST REPORT**  
<http://Online.KaiserAluminum.com>

## R294569

CUSTOMER PO NUMBER: P564022423-1		CUSTOMER PART NUMBER: 552043		PRODUCT DESCRIPTION: Cold Finished Round	
KAISER ORDER NUMBER: 694109	LINE ITEM: 1	SHIP DATE: 02/17/2014	ALLOY: 2024	TEMPER: T351	
WEIGHT SHIPPED: 1038 lbs.	QUANTITY: 91 pcs.	B/L NUMBER: 36524	DIAM/DAF/THKNS: 1.000 in.	WIDTH: 0.000 in.	LENGTH: 144.0 in.
SHIP TO:-  EMJ 1900 Mitchell Blvd Schaumburg, IL 60193 USA			SOLD TO:  EMJ 1900 Mitchell Blvd Schaumburg, IL 60193 USA		

Test Code: 1000 AC

### Actual Physical Properties

Lot Number	LONG. UTS ksi	LONG. YTS ksi	LONG. ELONG. %
10046291	71.3	54.2	19.0
	71.1	54.2	21.0
	70.9	54.1	21.0

### Chemical Composition, WT. % (Aluminum Remainder)

	Si	Fe	Cu	Mn	Mg	Cr	Zn	Ti	OTHERS EACH	OTHERS TOTAL	Lot
Actual	0.13	0.15	4.5	0.76	1.3	0.01	0.19	0.01			10046291
Max	0.50	0.50	4.9	0.9	1.8	0.10	0.25	0.15	0.05	0.15	
Min			3.8	0.30	1.2						

### Specifications

Standard: ISO 9001, ASTM B211-12, AMS 4120R, AMS-QQ-A-225/6A

### CERTIFICATION

Kaiser Aluminum Fabricated Products, LLC ("Kaiser") hereby certifies that the metal shipped under this order has been inspected and tested and found in conformance with the applicable specifications forming a part of the description set forth in Kaiser's sales acknowledgement form. Any warranty is limited to that shown on Kaiser's general terms and conditions of sale. Test reports are on file, subject to examination.

John Rennekamp, Quality Manager

Plant Serial: 199556

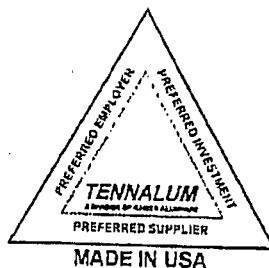
Kaiser Order Number: 694109

Line Item: 1

# KAISER ALUMINUM

FABRICATED PRODUCTS

Tennalum  
309 Industrial Drive  
Jackson, TN 38301  
731-423-2811



## CERTIFIED TEST REPORT

<http://Online.KaiserAluminum.com>

### Miscellaneous Notes

Made in USA

This material was melted and manufactured in the USA. Mercury is not a normal contaminant in aluminum alloys. Neither mercury nor any of its compounds were utilized by Kaiser Aluminum in the manufacture of this material. AS9100C:2009 The recording of false, fictitious or fraudulent statements or entries on the certificate may be punished as a felony under federal law.

This material meets the requirements of T4 temper and of QQ-A-225/6E Amendment 1 (CANCELLED). This material is RoHS 2 compliant.

### CERTIFICATION

Kaiser Aluminum Fabricated Products, LLC ("Kaiser") hereby certifies that the metal shipped under this order has been inspected and tested and found in conformance with the applicable specifications forming a part of the description set forth in Kaiser's sales acknowledgement form. Any warranty is limited to that shown on Kaiser's general terms and conditions of sale. Test reports are on file, subject to examination.

John Rennekamp, Quality Manager



Machining | Assembly | Metal Finishing

CMF, INC. - Metal Finishing Division  
2500.WEST ARGYLE ST.  
JACKSON, MI 49202  
United States of America

Ph: 517- 990-0011  
Fax: 517-990-0257

### Pack List

Number: 136438

Date: 13-May-14

#### To

TRUFORM MACHINE  
2510 Precision Street  
Jackson, MI 49202

#### Ship To

Mike Zotter  
TruForm Machine  
2510 Precision Street  
Jackson, MI 49202

Ph: 517-782-8523

Fax: 517-782-8455

Ph: 517-782-8523

Fax: 517-782-8455

Terms		Ship Via	
Net 30 Days		CustomerPickUp	
Quantity	Description		
44 ea	Part: AE99352G Body Job: 3814-21 Anodize per ACES 1758P1 Blue JOB 54978-01 Rec'd 44 pcs.	Rev: B PO: 14894 Line: 5	
<p>Certificate of Compliance</p> <p>ISO 9001:2008 / AS9100:C Certified      NADCAP Certified: # 8903147182 Exp. Date: April 9, 2017      Exp. Date: July 31, 2015</p> <p>Classic Metal Finishing certifies that all product meets requirements of the purchase agreement unless otherwise identified/notified and that all special processes were performed per the latest revision of the specification.</p> <p>Process:      Specification:</p> <p>Type II &amp; Type III Anodize      MIL-A-8625F (ACES 1758-BD) Type II Passivation      AMS 2700E (ACES 16P50-DE, ASTM A 967-13) Type VII Passivation      AMS 2700E (ACES 16P51-DF, ASTM A 967-13) Chemical Conversion Coat      MIL-DTL-5541F (ACES 16P5-CP &amp; 16P25-CC) Dry Film Lubrication      ACES 9 (BJ), ACES 2705P5 (AR) Mechanical Clean / Blast      ACES 16P4 (BU) and 16P10 (BV) Teflon Coat      ACES 1758 (BD)</p> <p>Classic Metal Finishing inspection meets or exceeds ANSI/ASQ Z1.4-2008 General Inspection Level II sampling requirements.</p> <p>Authorized by : Sam Absher, Sales Manager</p> <p>Form #75-11      Revision: Y (12/18/13)</p>			



Machining | Assembly | Metal Finishing

CMF, INC. - Metal Finishing Division  
2500 WEST ARGYLE ST.  
JACKSON, MI 49202  
United States of America

Ph: 517- 990-0011  
Fax: 517-990-0257

### Pack List

Number: 132839

Date: 26-Mar-14

#### To

TRUFORM MACHINE  
2510 Precision Street  
Jackson, MI 49202

#### Ship To

Mike Zotter  
TruForm Machine  
2510 Precision Street  
Jackson, MI 49202

Ph: 517-782-8523

Fax: 517-782-8455

Ph: 517-782-8523

Fax: 517-782-8455

Terms		Ship Via	
Net 30 Days		CustomerPickUp	
Quantity	Description		
25 ea	Part: AE99352G Body Job: 3814-20 Anodize per ACES 1758P1 Blue JOB 54978-01	Rev: B PO: 14458 Line: 3	
<p>Certificate of Compliance</p> <p>ISO 9001:2008 / AS9100:C Certified      NADCAP Certified: # 8903147182 Exp. Date: April 9, 2017      Exp. Date: July 31, 2015</p> <p>Classic Metal Finishing certifies that all product meets requirements of the purchase agreement unless otherwise identified/notified and that all special processes were performed per the latest revision of the specification.</p> <p>Process:      Specification:</p> <p>Type II &amp; Type III Anodize      MIL-A-8625F (ACES 1758-BD) Type II Passivation      AMS 2700E (ACES 16P50-DE, ASTM A 967-13) Type VII Passivation      AMS 2700E (ACES 16P51-DF, ASTM A 967-13) Chemical Conversion Coat      MIL-DTL-5541F (ACES 16P5-CP &amp; 16P25-CC) Dry Film Lubrication      ACES 9 (BJ), ACES 2705P5 (AR) Mechanical Clean / Blast      ACES 16P4 (BU) and 16P10 (BV) Teflon Coat      ACES 1758 (BD)</p> <p>Classic Metal Finishing inspection meets or exceeds ANSI/ASQ Z1.4-2008 General Inspection Level II sampling requirements.</p> <p>Authorized by : Sam Absher, Sales Manager</p> <p>Form #75-11      Revision: Y (12/18/13)</p>			

**AEROSPAC Upload Complete**

The following documentation has been transmitted on November 12, 2012.

Transmitted from: Wire Products  
Transmitted to: Eaton Tijuana  
P.O. Number: 42SWIREP-26  
P.O. Line Item No.: 26  
Part Number: 22744-135  
Part Revision: F  
Document No: 051138  
Document Type: Certification  
Lot Number: 11256S  
Order Number: 0013532  
Unique ID: 2670173

Please attach to shipper and include with shipment.

EATON AEROSPACE		<b>INSPECTION REQUIRED</b>		POR
DESC: SPRING				
ITEM: 22744-135			REVISION: F	
LOT: E784671			RCV'D: 11/17/2012	
USER ID: E3029721		WORK ORD ID:		SUPPLIER: 42001460
PO/WO: 42SWIREP		QTY: 100		
RECEIVER: E784671		POINT OF USE: 04b03004		
DELIVER TO: REGINS		CURE DATE:		
INSPECTOR SIGNATURE:		INSPECTION STAMP:		

*J. Heron*



# Packing Slip

Wire Products Co. Inc.  
14601 Industrial Parkway

Cleveland OH 44135

053636

Packing Slip ID : 053636

Created : 12-Nov-2012

Shipping ID : 11122012095757

Page : 1 of 1

Shipped : 12-Nov-2012

SOLD TO : ID : E1174

EATON IND. MFG GMBH  
8580 AVENIDA DE LA FUENTE  
SUITE C - 3004  
SAN DIEGO CA 92154

SHIP TO : ID : E1174

EATON IND  
BROKERAGE & LOGISTICS  
1659 GAILES BLVD  
SAN DIEGO CA 92154

Warehouse : PLT 3-WIRE PRODUCTS

Terms : 1/2% 10 NET 30

Freight :

Ship Via : Ups/Cvs

F.O.B. :

Invoice ID : SOI\_051138

BOL ID : 11122012095757

Item # : 22744 135 REV. F, COMPRESSION SPRING

PO# : 42SWIREP-26

SO# : SO\_0013532

Qty : 100

CPN :

Notes :

Pkgs	Type	Qty/Pkg	Shipped	Net Wt	Tare Wt	Gross Wt
1	BOX	100	100	0	1	1
1			100	0	1	1

710702/SI  
11-16-12  
J  
UPS G

Packages: 1  
Net: 0  
Tare: 1  
Gross: 1

Notes:

SHIP EXACT QTY (+/- 0)

Message:

[ End of Packing Slip ]

THE WIRE PRODUCTS COMPANY, INC.  
14601 INDUSTRIAL PARKWAY  
CLEVELAND, OHIO 44135

DATE : 06/15/12

TO: EATON AEROSPACE  
P.O. #:

PART #: 22744 135  
REV. #: F

W.O. #: 11256S

SHIP DATE: 06/15/12 QUANTITY: 960 DESC : COMPRESSION SPRING

=====

CERTIFICATE OF COMPLIANCE

We hereby certify that the item described above meets the specification for material and processing as noted on the drawing(s) and/or purchase order(s). Test reports on these parts are on file and indicate conformance with all applicable specification requirements.

*Ida Wagman PC Insp*

=====

RAW MATERIAL CERTIFICATION

WE HEREBY CERTIFY TO THE ANALYSIS OF THE MATERIAL USED ON THE ABOVE LISTED ORDER NO. COPY OF ORIGINAL ANALYSIS IS ON FILE IN OUR OFFICE.

MATERIAL AND SPEC #. : .028" 17-7 S.S. AMS5678 - DFARS  
TENSILE : SOURCE : INTERWIRE

CHEMICAL ANALYSIS

HEAT : E111301	MO. :	TITAN. :	SUL. :
CARBON :	CU. :	AL. :	OTHER :
MANG :	FE. :	SILI. :	OTHER :
PHOS. :	VA. :	CHROM. :	OTHER :
NI. :	CO. :	CB. :	OTHER :

FINISH :

SOURCE :  
TEST REPORTS ON THESE PARTS ARE ON FILE AND INDICATE CONFORMANCE WITH ALL APPLICABLE REQUIREMENTS.

*Ida Wagman PC Insp*

=====

NOTES : COUNTRY OF MELT: UK  
REF: SO#4582

=====

This report shall not be reproduced except in full, without the written approval from Wire Products Company.



The Inter Wire Group

www.interwiregroup.com  
355 Main Street - Armonk, NY 10504  
Phone: (914) 273-6633 Fax: (914) 273-6848

PT# 22744 135

## Material Certification

Invoice: 12050261  
Invoice Date: 5/04/2012  
Our Order: 12044879  
Customer PO: 33918++  
Sales Rep: ANDY STANTON

**BILL TO:**  
WIRE PRODUCTS CO  
14601 INDUSTRIAL PARKWAY  
CLEVELAND OH 44135

**SHIP TO:**  
WIRE PRODUCTS CO  
14601 INDUSTRIAL PKWY.  
PLANT #1  
CLEVELAND OH 44135

Delivery No. 12035619

Ship Date: 05/04/12

Ship VIA: UPS

ITEM DESCRIPTION			
Item No: 028017CL		Mill Name: TECIL	QTY SHIP 10
Customer Part No:D R SS 17/D9		Country of Origin: UK	
Description: .028 17-7 S/S CL		Melt Source: OUTOKUMPU	HEAT NO. E111301
		DFAR Compliant: YES	
		RoHS Compliant: YES	
Specification: ASTM-A313-10 TYPE 631		SAE-J217-94	AMS-5678F

Other Notes: REFERENCE: 11256S DEPT. #: 0200

Ticket Number	Qty
1212231090	10

Chemical Properties						
Element	C	MN	SI	P	S	CR
Value	0.0750	0.8700	0.2730	0.0270	0.0010	16.5500

Element	NI	MO	CU	AL
Value	7.6500	0.2200	0.3910	0.8940

Mechanical Properties				
Element	TENS STR MIN PSI	TENS STR MAX PSI	PRECIP HARD MIN	PRECIP HARD MAX
Value	272,000	284,000	325,000	338,000

Test Results					
Test	WRAP TEST	MICRO-STRUCTURE	SURFACE CONDITION	COILING TEST	MERCURY FREE
Result	Pass	Pass	Pass	Pass	Pass

The material has been inspected by the mill and conforms to the above referenced specifications.

*Jack T. Vandenberg*

JACK VANDENBERG - OPERATIONS MANAGER  
AUTHORIZED SIGNATURE

Commercial Anodizing Company, Inc.  
38387 APOLLO PKWY.  
WILLOUGHBY, OH 44094  
(440) 942-8384

CERTIFICATE OF COMPLIANCE TO:

WIRE PRODUCTS  
14601 INDUSTRIAL PKWY.,  
CLEVELAND, OH 44135

SHIP TO:

WIRE PRODUCTS  
14601 INDUSTRIAL PKWY.,  
CLEVELAND, OH 44135

P/L NUMBER  
177919

QUANTITY	PART NUMBER	DESCRIPTION	W/O- CERT NUMBER	P.O. NUMBER
920	22744 135 /0		174982	11256S

WE CERTIFY THAT THESE PARTS WERE PROCESSED TO THE FOLLOWING STANDARDS:

THIS IS TO CERTIFY THAT THE PART/PARTS HAVE BEEN PROCESSED IN ACCORDANCE WITH THE REQUIREMENTS PER ACES 16P3. WE ALSO INSURE THE PART/PARTS HAVE BEEN PROCESSED PER CUSTOMER PURCHASE ORDER. TEST RESULTS ARE AVAILABLE UPON REQUEST.

PART INFO:

NADCAP 12295 exp 3-2013

Authorized Signature: \_\_\_\_\_

*Pamela Gardner*  
Pamela Gardner - Inspector

Acknowledgement of Receipt: \_\_\_\_\_

Date: \_\_\_\_\_

6/13/2012 9:19:37 AM



HITECH METAL  
GROUP

HTG - HITECH AERO DIVISION  
34800 LAKELAND BLVD, EASTLAKE, OH 44095  
440-946-2280 - Fax: 440-946-2283

**PROCESS CERTIFICATION**

CUSTOMER NAME : WIRE PRODUCTS

CUST ID : WIREP

HTG JOB NO : 12/677

HTG SHIP DATE : 2/24/12

SALES ORDER : S28919

CUST ORDER# : 10660S

PART NUMBER : 5012380, FD01 1010 20, AE10488 616

DESCRIPTION : SPRING

QUANTITY : 280, 340, 260

**PROCESS SPECIFICATION(S)**

PROCESS  
AGE (AIR)

TEMPERATURE  
900°F(+50/-0°F)


TIME  
60 MINS(+15/-0 MINS)

COOL  
AIR FAN COOL

ATMOSPHERE : AIR

BASE MAT'L : 17-7 PER AMS5678

This is to certify that this order was processed in accordance with the specifications referenced above, the purchase order requirements and the applicable drawings.

SIGNED:   
PAUL VONLEHMEN, PLANT MANAGER

EATON AEROSPACE

POR

DESC:  
WIRE

ITEM: 900B03-1-100

REVISION:  
A

LOT: E903648

RCV'D: 08/07/2014

USER ID:  
E3027592

WORK ORD ID:

EXPIRE:  
SUPPLIER: 42001606

PO/WO: 42SCMF

QTY:  
100

RECEIVER: E903648

POINT OF USE:  
04A06010

DELIVER TO: 04A06010

CURE DATE:

INSPECTOR SIGNATURE:

INSPECTION STAMP:

INSPECTION



Machining | Assembly | Metal Finishing

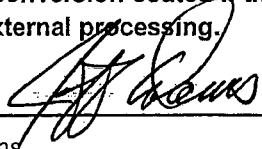
## SUPPLIER CERTIFICATE OF CONFORMANCE

ISO 9001:2008 / AS9100 CERTIFIED - Expiration: April 9, 2017

NADCAP Certified - Expiration: July 31, 2015

Customer	EATON		
Part No.:	900803-1-10C	Rev:	A
Part Name:	WIRE	P.O. Number	HPS 5154
Job Number:	25718	Date Complete:	5/8/14
		Quantity	1500
MATERIAL	SPECIFICATION	REV	MATERIAL LOT OR MILL HEAT #
Material Mill Cert 305 CRES	ACES 921M57		528516
Material Mill Cert			
Material Mill Cert			
Material Mill Cert			
Material Mill Cert			
Chemical Processing PASSIVATE	ACES 16P51		JOB# 25718
Chemical Processing DRY-FILM	ACES P91		JOB# 25718
Chemical Processing ANODIZE			
Other: (LIST) PRIME/PAINT			
Other: (LIST) MARKING			
Welding and Brazing			
Other: (LIST) CLEAR COAT			
OUTSIDE MACHINING SUPPLIER	KEY PROCESSES	REMARKS	

The undersigned certifies that the parts or items above were manufactured from materials and by processes free from mercury and/or radium contamination. The undersigned also certifies that the part(s) and material identified above meet(s) all the requirements of the purchase agreement including DFAR 252.225-7008, 252-225-7009, 252-225-7016 and PAC-ST004 and approved special processes/processors. Certificates are attached for all material or special processes. Classic Metal Finishing reserves the right to void a certificate of conformance for any parts that have been anodized or chemical conversion coated if they have subsequently been subjected to temperatures above 140° F during either internal or external processing.

Signature:   
Printed: Jeff Adams  
Title: Quality Eng.  
Date: 5-8-14

# FORM CUT INDUSTRIES INC.

197 Mt. Pleasant Ave.  
NEWARK, N.J. 07104-3895  
(973) 483-5154

Shipping & Receiving At: 200 Broad St.

Order No. <u>3625-13</u>		Date <u>4/28/14</u> 20		
Ship To		<b>CLASSIC METAL FINISHING</b>		
		<b>2500 WEST ARVILLE ST</b>		
		<b>JACKSON NJ 07030</b>		
FC# <u>10027</u>		C.O.D. <input type="checkbox"/>	VIA <u>UPS Next</u>	
<input checked="" type="checkbox"/>	QUANTITY	DESCRIPTION	PRICE	AMOUNT
1	<u>1,500</u>	<u>T900803-1-100</u>		
2		<u>CHMF BE 305SS</u>		
3				
4				
5				
6				
7		<u>17 #528516</u>		
8				
9				
10				
11				
12	<b>The Material Used To Fabricate</b>			
13	<b>Parts On This Order Complies</b>			
14	<b>With DEARS Clause 252.225-7008</b>			
14	<b>And 252.225-7009</b>			
15		TOTAL		
All claims and returned goods MUST be accompanied by this bill.				
0190218				
Rec'd By _____				

Thank You

SAE AS9102 Revision A - TruForm

Form 1 : Part Number Accountability Sheet 1 of 1

--	--	--	--

1. Part Number AE99352G	2. Part Name BODY	3. Serial Number NA	4. FAI Report Number NA
5. Part Revision Level B	6. Drawing Number AE99352G	7. Drawing revision level NA	8. Additional Changes- NA
9. Manufacturing Process Reference JOB 13617 C1	10. Organization Name TRUFORM MACHINE	11. Supplier Code S-8847	12. P.O. Number & Line Item CMF0862
13. Detail FAI <input checked="" type="checkbox"/> Assembly FAI <input type="checkbox"/>	14. Full FAI <input checked="" type="checkbox"/> Baseline Part Number including revision level Partial FAI <input type="checkbox"/> Reason for partial FAI: .....		

a) if above part number is a detail part only, go to Field 19  
b) if above part number is an assembly, go to the "INDEX" section below.

INDEX of part number or sub-assembly number required to make the assembly noted above.

[illegible]

1) Signature indicates that all characteristics are accounted for; meet drawing requirements or are properly documented for disposition.

2) Also indicate if the FAI is complete per Section 5.4: FAI ☒ complete FAI ☐ Not Complete

19. Signature	Michael Hamlin	20. Date 09/24/07
21. Reviewed by		22. Date
23. Customer Approval		24. Date

**SAE AS9102 Revision A - TruForm**

Form 2: Product Accountability - Raw Material, Specification and Special Process (es),

## Functional Testing

[illegible]

## Form 3: Characteristic Accountability, Verification and Compatibility Evaluation

1. Part Number AE99352G				2. Part Name BODY			3. Serial Number NA	4. FAI Report NA
Characteristic Accountability				Inspection / Test Results			14. Notes	
5. Char No.	6. Reference Location	7. Char Desig	8. Requirement	9. Results	10. Designed Tooling	11. Non-Conformance Number		
1	NA	NA	0.790	0.7895				
2	NA	NA	.581 +-.003	0.5800	NA	NA	NA	
3	NA	NA	0.273	0.2720	NA	NA	NA	
4	NA	NA	.160 MIN 63√	COMPLIANT	NA	NA	NA	
5	NA	NA	NA	NA	NA	NA	NA	
6	NA	NA	R.020 X 2	R.020 X 2	NA	NA	NA	
7	NA	NA	R.030 X 2	R.030 X 2	NA	NA	NA	
8	NA	NA	63√	< 63	NA	NA	NA	
9	NA	KEY D	.686 +-.002, .002 RUNOUT TO -A-	.6862, < .0005 RUNOUT TO -A-	NA	NA	NA	
10	NA	KEY B	.562 +-.001, .002 RUNOUT TO -A-	.5623, < .0005 RUNOUT TO -A-	NA	NA	NA	
11	NA	NA	0.490	0.4890	NA	NA	NA	
12	NA	NA	R.030	R.030	NA	NA	NA	
13	NA	NA	0.350	0.3510	NA	NA	NA	
14	NA	NA	R.020	R.020	NA	NA	NA	
15	NA	NA	R.020 +-.010	R.020	NA	NA	NA	
16	NA	NA	.218 +-.002	0.2182	NA	NA	NA	
17	NA	NA	0.435	.434,USED .043 REF BALL DIMENSION	NA	NA	NA	
18	NA	NA	0.325	0.3240	NA	NA	NA	
19	NA	NA	0.043	0.0440	NA	NA	NA	
20	NA	NA	R.015	R.015	NA	NA	NA	
21	NA	NA	30DEG	30DEG	NA	NA	NA	
22	NA	NA	.6025+-.0025	0.6020	NA	NA	NA	
CONTINUED NEXT SHEET								

SAE AS9102 Revision A - TFM



Verified by ThyssenKrupp Materials NA, Anna Riggs  
Quantity: 285 LB  
Cust PO#: A01-54  
Customer: TRUFORN MACHINE INC

(1 of 1)  
2007-09-10  
Shipper#: 2T5269  
Cust Part#:

## Certified Inspection Report

08/07/07  
01:01:47

Alcoa Global Hard Alloy Extrusions  
Massena Operations  
Park Avenue East, Massena, NY 13662



Customer  
**Copper Brass Sales**

Customer P.O. No.  
**CS3535**

Customer Part No.  
**(013871)**

Alcoa Order No.  
**MMC-81010- -001**

Govt. Contract No.

Ship To **Copper & Brass Sales, Inc**  
**1310 Scribner N. W.**  
**Walker, MI 49504**

We hereby certify that the material covered in this report has been inspected in accordance with, and has been found to meet the applicable requirements described herein, including any specifications forming a part of the description and that samples representative of the material met the composition limits and have the mechanical properties shown on the face of this sheet. Manufactured under an ISO/9000 registered quality management system. Melted and manufactured in the USA.  
Thomas J. Klemp, Quality Assurance Manager

*Thomas J. Klemp*

Date Shipped **08/06/07**

Weight Shipped **988 lbs**

Alloy - Temper **2024-T351**

Size **1.00000 IN**

Product **CFRB-SMS-ROD DIA. X 12 FT**

BOL **000154855**

Shape **DIA** Config **12 FT**

GRR

### Specifications:

AMS 4120R (Except Marking)  
AMS-QQ-A-225/6A  
Material conforms to T4 requirements  
QQ-A-225/6E (1)  
ASTM B211-03

Product produced and marked to the requirements of AMS-QQ-A-225/6 also meets the requirements of QQ-A-225/6.  
Product produced and marked to the requirements of QQ-A-225/6 also meets the requirements of AMS-QQ-A-225/6.

### TEST REQUIREMENTS

	Test	Test	Test	Test	Test	Test	Test	Test	Test	Test
	U.T.S.	T.Y.S.	%Elong							
Max:										
Min:	62.0	45.0	10.0							

### Test Results

Lot / Work Order	No. of Tests	Test	Test	Test	Test	Test	Test	Test	Test	Test
		U.T.S.	T.Y.S.	%Elong						
MA20074440	4									
		Max: 68.9	51.3	22.0						
		Min: 67.8	50.8	21.5						

When 2 or more tests per lot are made, the highest and lowest values are reported.  
Analysis obtained from one or more samples in this lot.

### TEST ABBREVIATIONS

U.T.S. Ultimate Tensile Strength KSI

T.Y.S. Tensile Yield Strength KSI

%Elong Elongation % in 2"

Aluminum Association Chemical Composition Limits (in Weight %)

ALLOY	MAX	MIN	%SI	%FE	%CU	%MN	%MG	%CR	%ZN	%TI	%Others	%Others	%AL				
2024			0.50	0.50	4.9	0.9	1.8	0.10	0.25	0.15	0.05	0.15	Rem				
					3.8	0.30	1.2				Each	Total					

### Actual Started Chemistry

### LOT/WORK ORDER

	MAX	MIN	%SI	%FE	%CU	%MN	%MG	%CR	%ZN	%TI	%OE	%OT	%AL				
MA20074440			0.08	0.25	4.5	0.63	1.4	0.02	0.07	0.02	LT 0.05	LT 0.15	Rem				
			0.08	0.24	4.5	0.61	1.4	0.02	0.07	0.02							

### NOTES:

Mercury is not a normal contaminant in aluminum alloys and neither it nor any of its compounds are used in the manufacture of our product.  
This alloy meets the requirements of EU 2002/95/EC (RoHS) and EU 2000/53/EC for lead, mercury, cadmium and hexavalent chromium.

Great Lakes Metal Finishing, Inc.  
 120 S. Dwight  
 Jackson, MI 49203  
 Phone: 517-841-9380  
 Fax: 517-841-9381

## Packing Slip

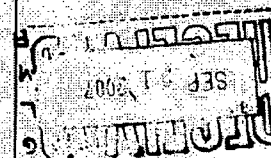
DATE	REF. NUMBER
9/21/2007	14888

<b>BILL TO</b>
TruForm Machine, Inc. 2510 Precision Street Jackson, MI 49202

<b>SHIP TO</b>
TruForm Machine, Inc. 2510 Precision Street Jackson, MI 49202

P. O. NUMBER	TERMS	SHIP	VIA	F.O.B.	Process Date	Processed By
000138	Net 30	9/21/2007	pick up		9/20/07	JS

QUANTITY	ITEM CODE	DESCRIPTION
15	AE88699E	Anodize Blue 2024/item 01
100	AE99352G	Anodize Blue 2024/item 02



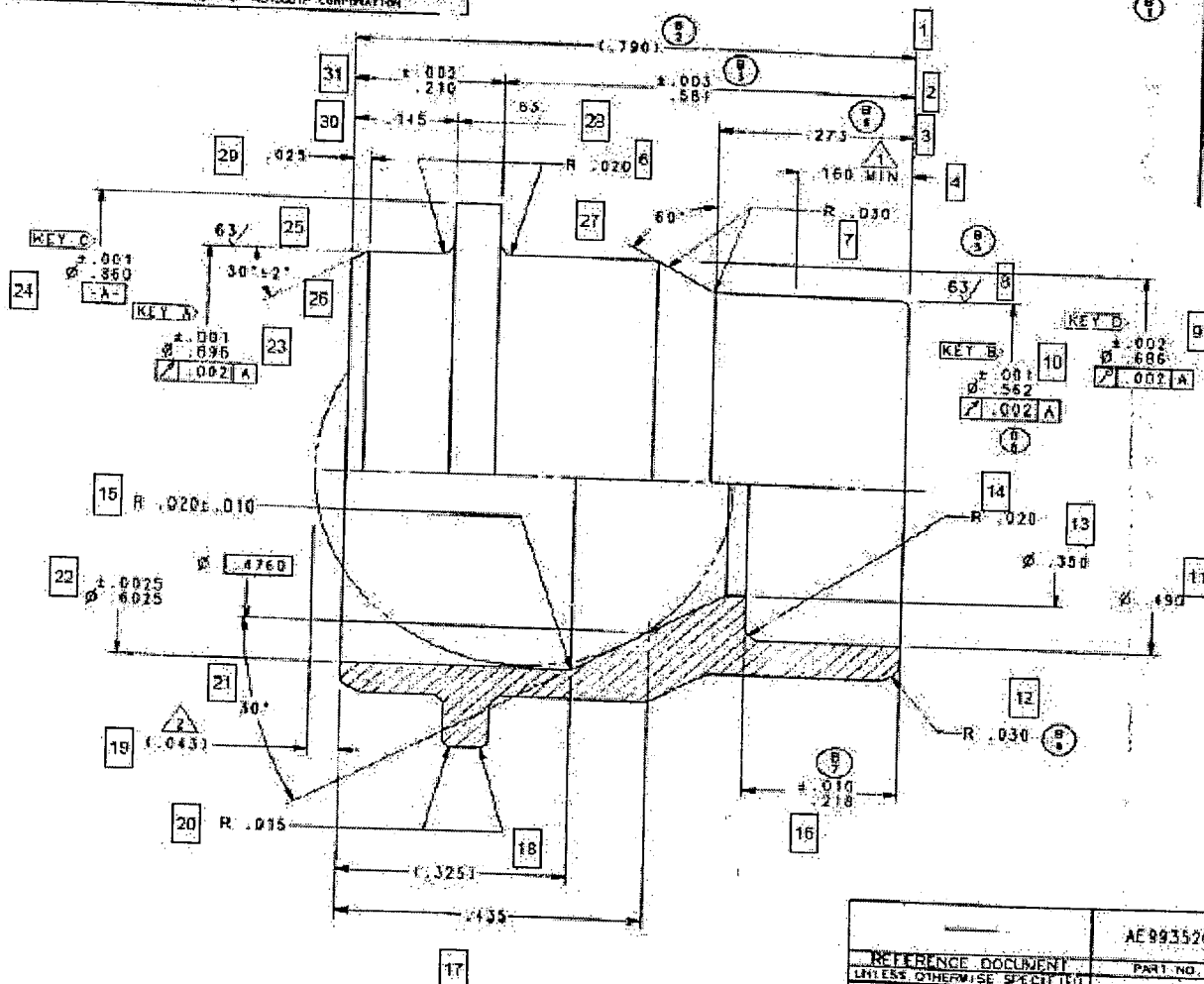
### CERTIFICATION

We Certify that the parts described above were processed according to your specifications and meet or exceed all applicable standards. Anodize to MIL-A-8625 Type II, Class 2 and ACES 1758P1.

This certification is not valid unless it is signed and dated.

*John Spencer* 9/21/07

NOTICE OF PROPRIETARY RIGHTS  
THIS DOCUMENT CONTAINS CONFIDENTIAL INFORMATION OR TECHNICAL DATA INCLUDING TRADE SECRETS, PROPRIETARY TO AERODUP CORPORATION. DISCLOSURE OF THIS DATA TO THE PUBLIC IS EXPRESSLY PROHIBITED. ANY DISCLOSURE OF THIS DATA TO THE PUBLIC IS EXPRESSLY PROHIBITED. ANY DISCLOSURE OF THIS DATA TO THE PUBLIC IS EXPRESSLY PROHIBITED. ANY DISCLOSURE OF THIS DATA TO THE PUBLIC IS EXPRESSLY PROHIBITED.



REVISIONS		DATE	APPROVED
LTR	DESCRIPTION		
B	REDRAWN - LAST REV. A (1) UPDATED TO LATEST ENG. SIDE (2) WAS "A.845" (3) WAS "A.845.305" (4) WAS "A.845.305" (5) REMOVED DIM WAS "A.845.305" (6) ADDED DIM WAS "A.845.305" (7) REMOVED DIM WAS "A.845.305"	8-2	ENDSIEIG "A"

PROTECTION OF A CRITICAL SURFACE IS REQUIRED DURING MANUFACTURE.

KEY CHARACTERISTICS (KEY X-1) ACES 2934

AE99352G		2024-1351	AMS 4120	ANODIZE DYED BLUE	ACES 1758PI
PART NO.		MATERIAL	MATERIAL SPEC	FINISH	FINISH SPEC
UNLESS OTHERWISE SPECIFIED		LIST OF MATERIAL			
DIMENSIONS ARE IN INCHES		DRAWN T. PLOCH			
DIMENSIONS ARE AFTER PLATING		DATE 3-1-98			
TOLERANCE ON:		CHECKED T. EWING			
+ .XX - .XXX ANGLES		DATE 9-7-98			
+ .02 + .005 + .30		APPROVED L. REUTHER			
123 / FINISH PER ANSI B46		DATE 8-1-98			
REMOVE ALL BURRS		RELEASE			
ALL CORNERS .002 DIA. R OR BREAK		DATE 4-12-97			
ALL DIAMETERS MUST NOT EXCEED .002 A		PROJECT NO. 301800B-1			
DIMENSIONS PER ANSI Y14.5M-1983		DESIGN APPROVED: [Signature]			
DRAWING INTERPRETATION PER ACES 2100		DATE/NO. [Signature]			
WORK TO DIMENSIONS DO NOT SCALE		REVISION NUMBER PDR 3084747B			
THIRD ANGLE PROJECTION		THIRD ANGLE PROJECTION			
SIZE C		CODE IDENT. NO. 00624		DRAWING NUMBER	
SCALE 8/1 R		BODY		16/14	
		AE99352G			

DIMENSION FROM .5938 DIA. REF GAGE BALL.  
MINIMUM DEPTH OF .03 FINISH.  
NO SIMILARITY LISTING

AE99302E	APPLICATION	USED ON
NEXT ASSY		

## Page 1 of 1

- a) If above part number is a detail part only, got to Field 19
- b) If above part number is an assembly, go to the "INDEX" section below.

[illegible]

Also indicate if the FAI is complete per Section 5.4 ☒ FAI complete

3. Signature **Brian Horsch**

Reviewed By **Brian Horsch**

#### 4. Customer Approval

20. Date 09/04/2014

22. Date 09/04/2014

24. Date	
----------	--

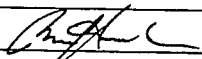
## AS/EN/SJAC 9102 Rev A First Article Inspection

Page 1 of 1

## Form 2: Product Accountability - Raw Material, Specifications and Special Process(s)

1. Part Number: AE82926G	2. Part Name: Guide	3. Serial Number: N/A	4. FAI Report Number: 130820S0267		
5. Material or Process Name	6. Specification Number	7. Code	8. Special Process Supplier Code	9. Customer Approval Verification (Yes/No/N/A)	10. Certificate of Conformance number
Round 2024 3/4 Barstock	AMS-QQ-A-225/6	N/A	KAISER Tennalum 309 Industrial Drive Jackson, TN 38301	Yes	10048054
Coating - Chem Conversion	ACES 16P5	N/A	Classic Metal Finishing 2500 West Argyle Jackson, MI	Yes	144329

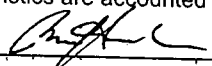
11. Functional Test Procedure Number	12. Acceptance report number, if applicable
N/A	N/A

3. Comments	
4. Prepared By Brian Horsch 	15. Date 09/04/2014

## Form 3: Characteristic Accountability, Verification and Compatibility Evaluation

1. Part Number: AE82926G				2. Part Name: Guide			3. Serial Number: N/A	4. FAI Report: 130820S0267
Characteristic Accountability				Inspection / Test Results				
5. Char No.	6. Reference Location	7. Characteristic Designator	8. Requirement	9. Results	10. Designed Tooling	11. Non-Conformance Number	14. Gage# Cal Due Gage Type	
1	N/A	N/A	NOTE: (1)	CONFORMS	N/A	N/A	N/A	
2	N/A	N/A	NOTE: (2)	CONFORMS	N/A	N/A	N/A	
3	N/A	N/A	NOTE: (3)	CONFORMS	N/A	N/A	N/A	
4	N/A	N/A	NOTE: (4)	CONFORMS	N/A	N/A	N/A	
5	N/A	N/A	NOTE: (5)	CONFORMS	N/A	N/A	N/A	
6	N/A	N/A	NOTE: (6)	.001	N/A	N/A	N/A	
7	N/A	N/A	.235 +/- .005	.236	N/A	N/A	N/A	
8	N/A	N/A	.108 - .112 (6)	.111	N/A	N/A	N/A	
9	N/A	N/A	25* +/- 30' TYP(3)	25* X 3	N/A	N/A	N/A	
10	N/A	N/A	25* +/- 30'	25*	N/A	N/A	N/A	
11	N/A	N/A	R .020 +/- .005	.020 R	N/A	N/A	N/A	
12	N/A	N/A	.045 +/- .005	.045	N/A	N/A	N/A	
13	N/A	N/A	20* +/- 30'	20*	N/A	N/A	N/A	
14	N/A	N/A	.125 +/- .005 (3)	.124	N/A	N/A	N/A	
15	N/A	N/A	.160 +/- .005	.160	N/A	N/A	N/A	
16	N/A	N/A	.130 +/- .005	.134	N/A	N/A	N/A	
17	N/A	N/A	.594 - .598	.596	N/A	N/A	N/A	
18	N/A	N/A	.140 +/- .005	.138	N/A	N/A	N/A	
19	N/A	N/A	.350 +/- .005	.349	N/A	N/A	N/A	
20	N/A	N/A	.185 +/- .005	.186	N/A	N/A	N/A	
21	N/A	N/A	30* +/- 30'	30*	N/A	N/A	N/A	
22	N/A	N/A	.080 +/- .010	.083	N/A	N/A	N/A	
23	N/A	N/A	.350 +/- .005	.348	N/A	N/A	N/A	
24	N/A	N/A	REVISION	NO	N/A	N/A	N/A	
25	N/A	N/A	2024-T351 AL / QQ-A-225/6 (AMS 4119)	CONFORMS	N/A	N/A	N/A	
26	N/A	N/A	IRIDITE / ACES 16P5	CONFORMS	N/A	N/A	N/A	
27	N/A	MAJOR	REMOVE ALL BURRS	CONFORMS	N/A	N/A	VERIFY	
28	N/A	N/A	BLOCK TOLERANCES	CONFORMS	N/A	N/A	N/A	

## Form 3: Characteristic Accountability, Verification and Compatibility Evaluation

Charactaeristic Accountability				Inspection / Test Results			
5. Char No.	6. Reference Location	7. Characteristic Designator	8. Requirement	9. Results	10. Designed Tooling	11. Non-Conformance Number	14. Gage# Cal Due Gage Type
The signature indicates that all characteristics are accounted for; meet drawing requirements or are properly documented for disposition.							
12. Prepared By: Brian Horsch 						13. Date: 09/04/2014	



Machining | Assembly | Metal Finishing

CMF, INC. - Metal Finishing Division  
2500 WEST ARGYLE ST.  
JACKSON, MI 49202  
United States of America

Ph: 517-990-0011  
Fax: 517-990-0257

### Pack List

Number: 144329

Date: 04-Sep-14

#### To

AERTECH MACHINING & MFG.  
2903 W. Michigan Avenue  
Jackson, MI 49202  
United States of America

#### Ship To

Dave Variell  
AERTECH MACHINING AND MFG.  
2903 W. Michigan Avenue  
Jackson, MI 49202  
United States of America

Ph: 517-782-4644

Fax: 517-782-8323

Ph: 517-782-4644

Fax: 517-782-8323

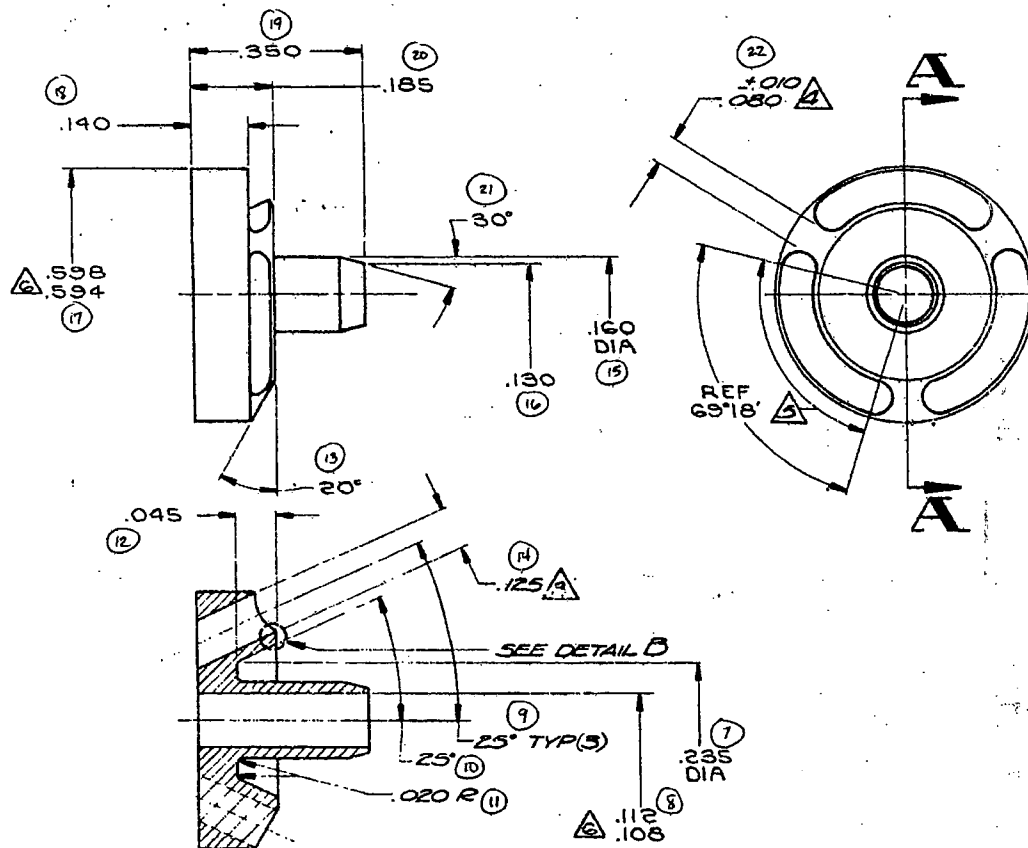
<b>Terms</b>		<b>Ship Via</b>	
Net 30 Days		CustomerPickUp	
<b>Quantity</b>	<b>Description</b>		
6 ea	Part: AE82926G Guide Job: 5999-36 Chemical Conversion Coat per ACES 16P5 JOB 130820		
Rev: NONE PO: 99384 Line: 1			
Certificate of Compliance  ISO 9001:2008 / AS9100:C Certified    NADCAP Certified: # 8903147182 Exp. Date: April 9, 2017    Exp. Date: July 31, 2015  Classic Metal Finishing certifies that all product meets requirements of the purchase agreement unless otherwise identified/notified and that all special processes were performed per the latest revision of the specification.  Process:    Specification:  Type II & Type III Anodize    MIL-A-8625F (ACES 1758-BD) Type II Passivation    AMS 2700E (ACES 16P50-DE, ASTM A 967-13) Type VII Passivation    AMS 2700E (ACES 16P51-DF, ASTM A 967-13) Chemical Conversion Coat    MIL-DTL-5541F (ACES 16P5-CP & 16P25-CC) Dry Film Lubrication    ACES 9 (BJ), ACES 2705P5 (AR) Mechanical Clean / Blast    ACES 16P4 (BU) and 16P10 (BV) Teflon Coat    ACES 1758 (BD)  Classic Metal Finishing inspection meets or exceeds ANSI/ASQ Z1.4-2008 General Inspection Level II sampling requirements.  Authorized by : Sam Absher, Sales Manager  Form #75-11    Revision: Y (12/18/13)			

Authorized Signature:

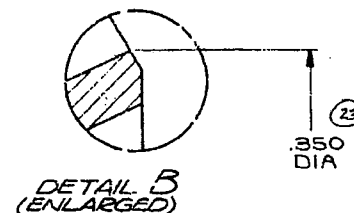
*[Signature]*

THE INFORMATION DISCLOSED ON THIS DRAWING IS PROPRIETARY AND SHALL NOT BE DISCLOSED, USED, OR DUPLICATED FOR PROCUREMENT OR MANUFACTURING PURPOSES WITHOUT THE EXPRESS WRITTEN CONSENT OF AEROQUIP CORPORATION. (ASPR 9-203.3)

REVISIONS			
LTR	DESCRIPTION	DATE	APPROVED
24			



CONTROLLED DOCUMENT  
WITH RED



SECTION AA

- 1. (-6 SIZE) REF ONLY.
- 2. CLASSIFICATION OF CHARACTERISTICS IS IN ACCORDANCE WITH ACES 284. DEFECT CLASS:  $\oplus$  CRITICAL  $\ominus$  MAJOR
- 3. 3 PORTS EQUALLY SPACED FULL RADIUS AT BOTH ENDS.
- 4. WIDTH OF WEB WHEN MEASURED ALONG CENTER LINE OF PORT. TYP (3).
- 5. CENTER LINE OF FULL RADIUS AT ENDS OF PORT. TYP (3)
- 6. THESE DIAMETERS MUST BE CONCENTRIC WITHIN .003 TIR

NOTES:

FOP SIMILARITY LISTING SEE AE200001043G

AE82012E	
NEXT ASSY	USED ON
APPLICATION	

AE99356G	AE82926G	2024-1351 AL	00-A-225/6 (AMS 4119)	IRIDITE	ACES16P5
REF DOCUMENTS		LIST OF MATERIAL			
UNLESS OTHERWISE SPECIFIED		Aeroquip AEROQUIP CORPORATION			
DIMENSIONS ARE IN INCHES		AMB DIVISION / JACKSON PLANT			
DIMENSIONS ARE AFTER PLATING		Jackson, Michigan, U.S.A.			
TOLERANCE ON:		DRAWING TITLE			
XX .XXX ANGLE		GUIDE			
±.02 ±.005 ±.020		2263N4E			
1/25 FINISH PER USAS 845.1		SIZE CODE IDENT. NO. DRAWING NUMBER			
REMOVE ALL BURRS		C 00624 AE82926G			
ALL CORNERS 010° RADIUS OR BREAK		SCALE NONE			
ALL DIAMETERS MUST BE CONCENTRIC WITHIN .005 I.R.		SHEET 1			
DIMENSIONING PER USAS Y14.5					
WORK TO DIMENSIONS					
DO NOT SCALE					
23		1422841460000			

AE82926G REV 1

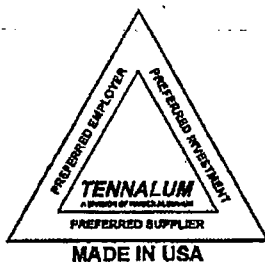
# KAISER

## ALUMINUM

### FABRICATED PRODUCTS

Tennalum  
309 Industrial Drive  
Jackson, TN 38301  
731-423-2811

U233



## CERTIFIED TEST REPORT

<http://Online.KaiserAluminum.com>

L 367507

CUSTOMER PO NUMBER: P583841423-2		CUSTOMER PART NUMBER: 512972		PRODUCT DESCRIPTION: Cold Finished Round	
KAISER ORDER NUMBER: 696744	LINE ITEM: 2	SHIP DATE: 05/13/2014		ALLOY: 2024	TEMPER: T351
WEIGHT SHIPPED: 6066 lbs.	QUANTITY: 946 pcs.	B/L NUMBER: 36859	DIAM/DAF/THKNS: 0.750 in.	WIDTH: 0.000 in.	LENGTH: 144.0 in.
SHIP TO:  EMJ 1900 Mitchell Blvd Schaumburg, IL 60193 USA			SOLD TO:  EMJ 1900 Mitchell Blvd Schaumburg, IL 60193 USA		

Test Code: 1000 AC

## Actual Physical Properties

Lot Number	LONG. UTS ksi	LONG. YTS ksi	LONG. ELONG. %
10048054	68.6	52.1	22.0
	69.1	52.2	23.0
	67.9	51.5	24.0
	68.7	52.0	22.0
	68.6	52.0	22.0
	68.5	51.7	21.5
	69.5	52.0	21.0
	69.5	52.4	22.0
	69.2	52.5	22.0
	68.6	52.0	23.0
	68.8	51.9	22.0
	68.7	52.0	23.0

## Chemical Composition, WT. % (Aluminum Remainder)

	Si	Fe	Cu	Mn	Mg	Cr	Zn	Ti	OTHERS EACH	OTHERS TOTAL	Lot
Actual	0.104	0.212	4.62	0.717	1.363	0.017	0.142	0.0173			10048054
Max	0.50	0.50	4.9	0.9	1.8	0.10	0.25	0.15	0.05	0.15	
Min			3.8	0.30	1.2						

## Specifications

## CERTIFICATION

Kaiser Aluminum Fabricated Products, LLC ("Kaiser") hereby certifies that the metal shipped under this order has been inspected and tested and found in conformance with the applicable specifications forming a part of the description set forth in Kaiser's sales acknowledgement form. Any warranty is limited to that shown on Kaiser's general terms and conditions of sale. Test reports are on file, subject to examination.

John Rennekamp, Quality Manager

Plant Serial: 203276

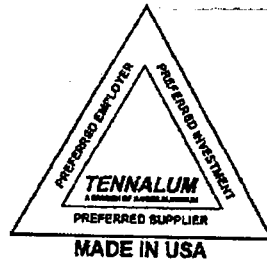
Kaiser Order Number: 696744

Line Item: 2

# **KAISER ALUMINUM**

**FABRICATED PRODUCTS**

Tennalum  
309 Industrial Drive  
Jackson, TN 38301  
731-423-2811



## **CERTIFIED TEST REPORT**

<http://Online.KaiserAluminum.com>

Standard: ISO 9001,ASTMB211-12,AMS4120R,AMS-QQ-A-225/6A

### **Miscellaneous Notes**

Made in USA

This material was melted and manufactured in the USA. Mercury is not a normal contaminant in aluminum alloys. Neither mercury nor any of its compounds were utilized by Kaiser Aluminum in the manufacture of this material. AS9100C:2009 The recording of false, fictitious or fraudulent statements or entries on the certificate may be punished as a felony under federal law.

This material meets the requirements of T4 temper and of QQ-A-225/6E Amendment 1 (CANCELLED). This material is RoHS 2 compliant.

### **CERTIFICATION**

Kaiser Aluminum Fabricated Products, LLC ("Kaiser") hereby certifies that the metal shipped under this order has been inspected and tested and found in conformance with the applicable specifications forming a part of the description set forth in Kaiser's sales acknowledgement form. Any warranty is limited to that shown on Kaiser's general terms and conditions of sale. Test reports are on file, subject to examination.

John Rennekamp, Quality Manager

# CERTIFICATE OF TEST



Page 01 of 02

Certification Date  
15-AUG-2014

CUSTOMER ORDER NUMBER  
98997 L2

EARLE M. JORGENSEN COMPANY  
1900 MITCHELL BLVD.  
SCHAUMBURG IL 60193

Invoice Number  
S357438

CUSTOMER PART NUMBER

SOLD TO: AERTECH MACHINING & MFG, INC.  
2903 W MICHIGAN AVE  
JACKSON MI 49202

SHIP TO:

AERTECH MACHINING & MFG, INC.  
2903 W MICHIGAN AVE  
JACKSON MI 49202

Description: 2024-T351 CF BAR AMS QQ A 225/6, QQ A 225/6  
3/4 RD X 12'  
HEAT: 10048054  
ITEM: 512972  
Line Total: 32 LB

Specifications:  
QQ A 225/6 E\*  
AMS QQ A 225/6 A

ASTM B211 12  
\*AMD 1 CANCELLED

AMS 4120 R  
MEETS T4 TEMPER

## ALUMINIUM CHEMICAL ANALYSIS

### DESCRIPTION:

	SI	FE	CU	MN	MG	CR	ZN	TI
MIN			3.8	0.3	1.2			
MAX	0.5	0.5	4.9	0.9	1.8	0.1	0.25	0.15

OTHERS : EACH TOTAL  
0.05 0.15  
AL REMAINDER

RCPT: R367507  
VENDOR: KAISER ALUMINUM (F/F)

COUNTRY OF ORIGIN : USA

## MECHANICAL PROPERTIES

DESCRIPTION	YLD STR KSI	ULT TEN KSI	%ELONG IN 02 IN	%RED IN AREA	HARDNESS
	52.1	68.6	22.0		
	52.2	69.1	23.0		

The above data were transcribed from the manufacturer's Certificate of Test after verification for completeness and specification requirements of the information on the certificate. All test results remain on file subject to examination.

Material did not come in contact with mercury while in our possession.

CHUCK FRED A

We hereby certify that the material covered by this report will meet the applicable requirements described herein, including any specification forming a part of the description.

The willful recording of false, fictitious, or fraudulent statements in connection with test results may be punishable as a felony under federal statutes.

*Charles E. Freda*  
MANAGER, QUALITY ASSURANCE



# CERTIFICATE OF TEST

Page 02 of 02

Certification Date  
15-AUG-2014

CUSTOMER ORDER NUMBER  
98997 L2

EARLE M. JORGENSEN COMPANY  
1900 MITCHELL BLVD.  
SCHAUMBURG IL 60193

Invoice Number  
S357438

CUSTOMER PART NUMBER

<b>SOLD TO:</b>	<b>AERTECH MACHINING &amp; MFG, INC</b>	<b>SHIP TO:</b>	<b>AERTECH MACHINING &amp; MFG, INC.</b>
	2903 W MICHIGAN AVE		2903 W MICHIGAN AVE
	JACKSON MI 49202		JACKSON MI 49202

Description: 2024-T351 CF BAR AMS QQ A 225/6, QQ A 225/6  
3/4 RD X 12'  
HEAT: 10048054  
ITEM: 512972  
Line Total: 32 LB

COMMENTS

melted & mfg in usa  
this material is rohs 2 compliant  
chemistry:

si 0.104/0.50  
fe 0.212/0.50  
cu 4.62/4.9/3.8  
mn 0.717/0.9/0.30  
mg 1.363/1.8/1.2  
cr 0.017/0.10  
zn 0.142/0.25  
ti 0.0173/0.15

others each 0.05/others total 0.15

The above data were transcribed from the manufacturer's Certificate of Test after verification for completeness and specification requirements of the information on the certificate. All test results remain on file subject to examination.

We hereby certify that the material covered by this report will meet the applicable requirements described herein, including any specification forming a part of the description.

The willful recording of false, fictitious, or fraudulent statements in connection with test results may be punishable as a felony under federal statutes.

Material did not come in contact with mercury while in our possession.

CHUCK FRED A

*Charles E. Freda*  
MANAGER, QUALITY ASSURANCE

NO. OF PKGS.		PKG. TYPE		NO. OF PKGS.		PKG. TYPE		TOTAL PCS.		DESCRIPTION OF ARTICLES			SHIP WGT.		CLS		FREIGHT CHARGES ARE TO BE PRE-PAID UNLESS THIS BLOCK IS CHECKED <input type="checkbox"/>		Subject to Section 7 of conditions, if this shipment is to be delivered to the consignee without recourse on the consignee, the consignee shall sign the following statement: The carrier shall not make delivery of this shipment without payment of freight and all other lawful charges. (Signature of Consignee)		TAX/AMT.		TOTAL	
1	1									ALUMINUM BAR			13	32	060					C.O.D. AMOUNT				
																				C.O.D. FEE TO BE PAID BY				
																				SHIPPER <input type="checkbox"/> CONSIGNEE <input type="checkbox"/>				
																				CARRIER				
																				AGENT				
PACKING SLIP										TOTAL			32											

**SAE AS9102 Revision A**

## Form 1 : Part Number Accountability

a) if above part number is a detail part only, go to Field 19  
b) if above part number is an assembly, go to the "INDEX" section below.

**INDEX of part number or sub-assembly number required to make the assembly noted above.**

[illegible]

1) Signature indicates that all characteristics are accounted for; meet drawing requirements or are properly documented for disposition.

2) Also indicate if the FAI is complete per Section 5.4:

**FAI complete****FAI Not Complete**

19. Signature Jela Wagne

21. Reviewed by

### 23. Customer Approval

20. Date	9-30-11
----------	---------

22. Date	30 SEP 11
----------	-----------

24. Date	
----------	--

**SAE AS9102 Revision A**

[illegible]



THE WIRE PRODUCTS COMPANY, INC.  
14601 INDUSTRIAL PARKWAY  
CLEVELAND, OHIO 44135

DATE : 09/30/11

TO: EATON IND.

P.O. #:

PART #: 22744 135

W.O. #: 7557S

REV. #: F

SHIP DATE: 09/30/11

QUANTITY:

312 DESC : COMPRESSION SPRING

=====

CERTIFICATE OF COMPLIANCE

We hereby certify that the item described above meets the specification for material and processing as noted on the drawing(s) and/or purchase order(s). Test reports on these parts are on file and indicate conformance with all applicable specification requirements.

*Ida Wagner QC Insp*

=====

RAW MATERIAL CERTIFICATION

WE HEREBY CERTIFY TO THE ANALYSIS OF THE MATERIAL USED ON THE ABOVE LISTED ORDER NO. COPY OF ORIGINAL ANALYSIS IS ON FILE IN OUR OFFICE.

MATERIAL AND SPEC #. : .028" 17-7 S.S. - DFARS

TENSILE : SOURCE : GIBBS WIRE & STEEL CO.

CHEMICAL ANALYSIS

HEAT : 65013	MO.:	TITAN.:	SUL.:
CARBON :	CU.:	AL.:	OTHER:
MANG :	FE.:	SILI.:	OTHER:
PHOS.:	VA.:	CHROM.:	OTHER:
NI.:	CO.:	CB.:	OTHER:

FINISH :

SOURCE :

TEST REPORTS ON THESE PARTS ARE ON FILE AND INDICATE CONFORMANCE WITH ALL APPLICABLE REQUIREMENTS.

*Ida Wagner QC Insp*

=====

NOTES : COUNTRY OF MELT: GR. BRITAIN  
REF: SO#10549

=====

This report shall not be reproduced except in full, without the written approval from Wire Products Company.

# Gibbs Certificate

Gibbs Wire & Steel Company, Inc. 3751 Olive Road, South Bend, Indiana 46620

WIRE PRODUCTS CO  
14601 INDUSTRIAL PKWY  
PLANT #1-0300

CLEVELAND OH 44135 USA

Description: 0.0280" P/M.0005

17-7 PH COND. C GIBBSCOTE STAINLESS STEEL

Date Shipped: 4/12/2010

Cust Order #: 32406

Amount Shipped: 25.00

Heat Number: 65013

Mill Coil ID:

Gibbs Coil ID:

Gibbs Number: 22144

To Certify that the material shipped against your above order number is in accordance with

Specification: AMS 5678 F

ASTM-A-313-08

TYPE 631

C: 0.0780	Mn: 0.9000	P: 0.0280	Sul: 0.0010
Si: 0.2600	Cr: 16.6100	Ni: 7.6500	Mo: 0.1100
Co:	Cu: 0.2500	N2:	Fe:
Ti:	Al: 0.8500	Be:	W:
Zn:	Sn:	Pb:	Cb:
Ta:	V:		

## PRE-HEAT

## POST-HEAT

MIN

MAX

MIN

MAX

Tensile Strength: 275,000

277,000

326,000

329,000

Condition CH900:

Mill Source/Rod Source: SUMIDEN

GR. BRITAIN

Reduction of Area:

MATERIAL FREE FROM MERCURY CONTAMINATION  
COIL AND WRAP TEST GOOD  
DFARS COMPLIANT

*Kelly Maxwell*

Gibbs Wire & Steel Company, Inc.  
Certification Clerk

Kelly Maxwell

GWS #: 503375

Tel: (574)234-6071; Fax: (574)237-0712



HI TECHMETAL  
GROUP

HTG - HITECH AERO DIVISION  
34800 LAKELAND BLVD, EASTLAKE, OH 44095  
440-946-2280 - Fax: 440-946-2283

### PROCESS CERTIFICATION

CUSTOMER NAME : WIRE PRODUCTS  
HTG JOB NO : 11/764  
INVOICE NO : 743975-00  
CUST ORDER# : 7928S  
PART NUMBER : AE10488 658 REV A, 22744 135 REV. F AE10488 404 REV. A, AE10488 734 REV. A, AE14822 088 REV. A  
DESCRIPTION : COMPRESSION SPRING  
QUANTITY : 450, 600, 300, 550, 550

CUST ID : WIREP  
HTG SHIP DATE : 3/2/11

### PROCESS SPECIFICATION(S)

PROCESS  
AGE (AIR)

TEMPERATURE  
900°F(+50/-0°F)

TIME  
60 MINS(+15/-0 MINS)

COOL  
AIR FAN COOL

ATMOSPHERE : AIR

BASE MAT'L : 17-7 PER AMS5678

This is to certify that this order was processed in accordance with the specifications referenced above, the purchase order requirements and the applicable drawings.

SIGNED:   
PAUL VONLEHMDEN, PLANT MANAGER



Magnetic Inspection Laboratory 1401 Greenleaf, Elk Grove, IL 60007  
Phone 847-437-4488 Fax 847-437-4538

# DOCUMENT OF CERTIFICATION

BillTo WIRE PRODUCTS COMPANY  
14601 INDUSTRIAL PARKWAY  
CLEVELAND, OH 44135

ShipTo WIRE PRODUCTS COMPANY  
14601 INDUSTRIAL PARKWAY  
CLEVELAND, OH 44135

Work Order 00416480

Reference PACK SLIP ID: W007557S-01-2

Reference P.O.# W007557S  
Date 04/05/2011

Quantity	Part / Description	Revision	Material
550	22744 135/0 COMPRESSION SPRING	F	17-7 PH

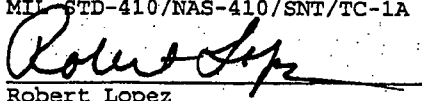
Specifications:

PASSIVATE  
PASSIVATION PER ACES 16P3, Rev. CJ  
Superseded by ACES 16P50, Rev DC

Humidity IAW AMS-STD-753 METHOD 101 Rev. A  
Sample Size 13 PCS  
Test Time: 24.00 HOURS  
Results: PASSED

NADCAP Approved Source

Technician(s) Signature(s) &  
MIL STD-410/NAS-410/SNT/TC-1A LVL II Expiration Date

  
Robert Lopez

CERTIFICATION - This Document certifies that the items have been processed in accordance with the aforementioned P.O. and that the process conforms to the applicable specifications ALL records on file in the Certification Department.

**EATON**

Aeroquip

**ENGINEERING STANDARD**

ACES No. 16

Page 4 Rev. CH

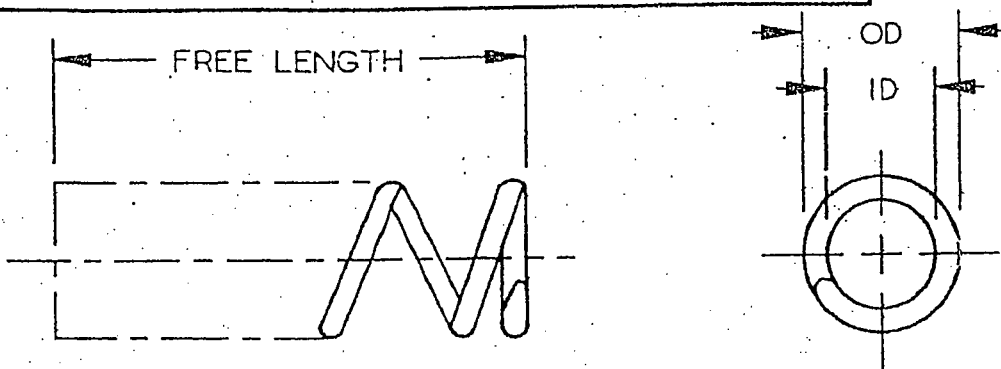
Table I  
Defined Processes

Process Designation	Description	Controlled by
ACES 16P1	Passivation of 300 and 400, except 40S, 430, 431 and 44S CRES	Industrial Division (Maumee)
ACES 16P2	Passivation of 300 series CRES parts without relatively large amounts of sulfur or selenium and titanium parts. For Aerospace applications this has been superseded by ACES 16P50 and by ACES 16P51. Refer to ACES for proper procedure for material type.	Industrial Division (Maumee)
ACES 16P3	Passivation of 400 series CRES parts; 17-4 PH, 17-7 PH and 15-5 PH CRES parts; 300 series CRES parts with relatively large amounts (0-15%) of sulfur or selenium and all wire parts less than 1.3mm in diameter. For Aerospace applications this has been superseded by ACES 16P50 and by ACES 16P51. Refer to ACES for proper procedure for material type.	Industrial Division (Maumee)
ACES 16P4	Mechanical cleaning of copper or silver brazed assemblies.	Jackson -
ACES 16P5	Chemical film, for aluminum and aluminum alloys per MIL-C-5541, Class 3 (no electrical conductivity test)	Jackson
ACES 16P6	Obsolete - Drawings and documents specifying ACES 16P6 shall be zinc plated per ACES 16P47. Those applications which require cadmium plating previously described under ACES 16P6 shall specify ACES 16P53	N/A
ACES 16P7	Passivation - MF acid.	Jackson
ACES 16P8	Cadmium plate, electro-deposited, dyed black	Industrial Division (Maumee)
ACES 16P9	Black cupric oxide coloring of aluminum bronze alloy	Industrial Division (Maumee)
ACES 16P10	Mechanical conditioning, Space craft components, brazed assemblies, etc.	Jackson
ACES 16P11	Electroless nickel plating	Industrial Division (Maumee)
ACES 16P12	Chromate conversion coating	Industrial Division (Maumee)
ACES 16P13	Petroleum based chemical film protection for ferrous metals	Industrial Division (Maumee)
ACES 16P14	Mechanical cleaning of ferrous and non-ferrous metals and welded or brazed assemblies	Jackson
ACES 16P15	Bright dip, for copper based alloys	Industrial Division (Maumee)
ACES 16P16	Cadmium plate, electro-deposited (critical components) with oil Immersion per QQ-P-416	Jackson
ACES 16P17	Zinc plate, electro-deposited	Industrial Division (Maumee)
ACES 16P18	Mechanical conditioning, space-craft run tubing ends	Jackson
ACES 16P19	Canceled use ACES 16P7	N/A

220  
DEC.

RECEIVED JAN 10 2009

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REQUIRED WORKING DATA							
AEROQUIP PART NO.	WIRE DIA BEFORE FINISH	TOTAL COILS REF	FREE LENGTH REF	TO BE LBS. $\pm .25$	AT INCHES "A"	MUST WORK FREELY IN MAX HOLE DIA	MUST FREELY MIN P DIA
22744-135	.028	7.00	.561	2.00	.423	.260	.18

8. RADIUS OR BREAK BOTH ENDS ADJACENT TO THE GROUND SURFACE AT THE CUT OFF .010 MIN. DEBURR I.D. AND O.D. OF THE GROUND ENDS. (10)

7. ENDS MUST BE GROUND, 270°  $\pm 30^\circ$  AND CLOSED SQUARE TO AXIS WITHIN 3". (11)

6. DIRECTION OF HELIX: LEFT HAND. (8)

5. FINISH SPEC: ACES 16P3. (9)

4. FINISH: PASSIVATE.

3. MATERIAL SPEC: AMS5678, COND CH900 (F1)

2. MATERIAL: 17-7PH CASC. (1)

1. CLASSIFICATION OF CHARACTERISTICS IS IN ACCORDANCE WITH ACES 284. DEFECT CLASS:  $\ominus$  CRITICAL  $\ominus$  MAJOR

11. SPRING MAY BE "HOURLASS" SHAPE IN FREE LENGTH PROVIDED IT MEETS MAX HC AND MIN PLUG DIA. REQUIREMENTS WHEN COMPRESSED THRU DIM. "A" TO DIM. "B".

10. PRELOAD SPRING TO DIM. "B" TO REMOVE INITIAL SET. AFTER PRELOADING SET MUST NOT EXCEED 3% OF FREE LENGTH AFTER COMPRESSING TO DIM. "B".

9. FINISH ON GROUND SURFACE TO BE 125/

UNLESS OTHERWISE SPECIFIED		DRAWN K. McDOL
DIMENSIONS ARE IN INCHES		CHECKED
DIMENSIONS ARE AFTER PLATING		APPROVED
TOLERANCE ON:		APPROVED
.XX	.XXX	ANGLES
$\pm .02$	$\pm .005$	30°
✓ FINISH PER ANSI B46.1		RELEASE
REMOVE ALL BURRS		PROJECT NO. AD1793
ALL CORNERS .010". L05 R. OR BREAK		DESIGN APPR.
ALL DIAMETERS MUST BE		
CONCENTRIC WITHIN .001" T.I.R.		
DIMENSIONING PER ANSI Y14.5		CODE NUMBER
WORK TO DIMENSIONS		81321
DO NOT SCALE		

NO SIMILARITY LISTING

NEXT ASSY	USED ON
APPLICATION	

REVISIONS		
DESCRIPTION	DATE	APPROVED
REDRAWN - LAST REV "E" (1) NOTE 3 WAS "... AM55673 "	5-15-85	EN89521 "AQ" BS

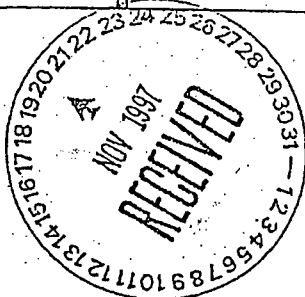
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⑦

.204	.196	14.50	.249	.193	5.00	—
"B"	SOLID HEIGHT MAX	RATE LB/INCH	OD	ID	ACTIVE COILS	WT IN LBS

### REFERENCE DATA



**CONTROLLED**

DATE 5-15-85	 <b>Aeroquip</b> AEROQUIP CORPORATION AEROQUIP AEROSPACE DIVISION Jackson, Michigan, U. S. A.	
DATE		
DATE		
DATE		
DATE 7-22-64		
APC NO. C5	DRAWING TITLE	
SPRING  1812C		
SIZE B	CODE IDENT. NO. 00624	DRAWING NUMBER 22744-135
1/34000	SCALE NONE	SHEET